

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319663

Luminaire Tested: **GAN-SA9D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63176 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

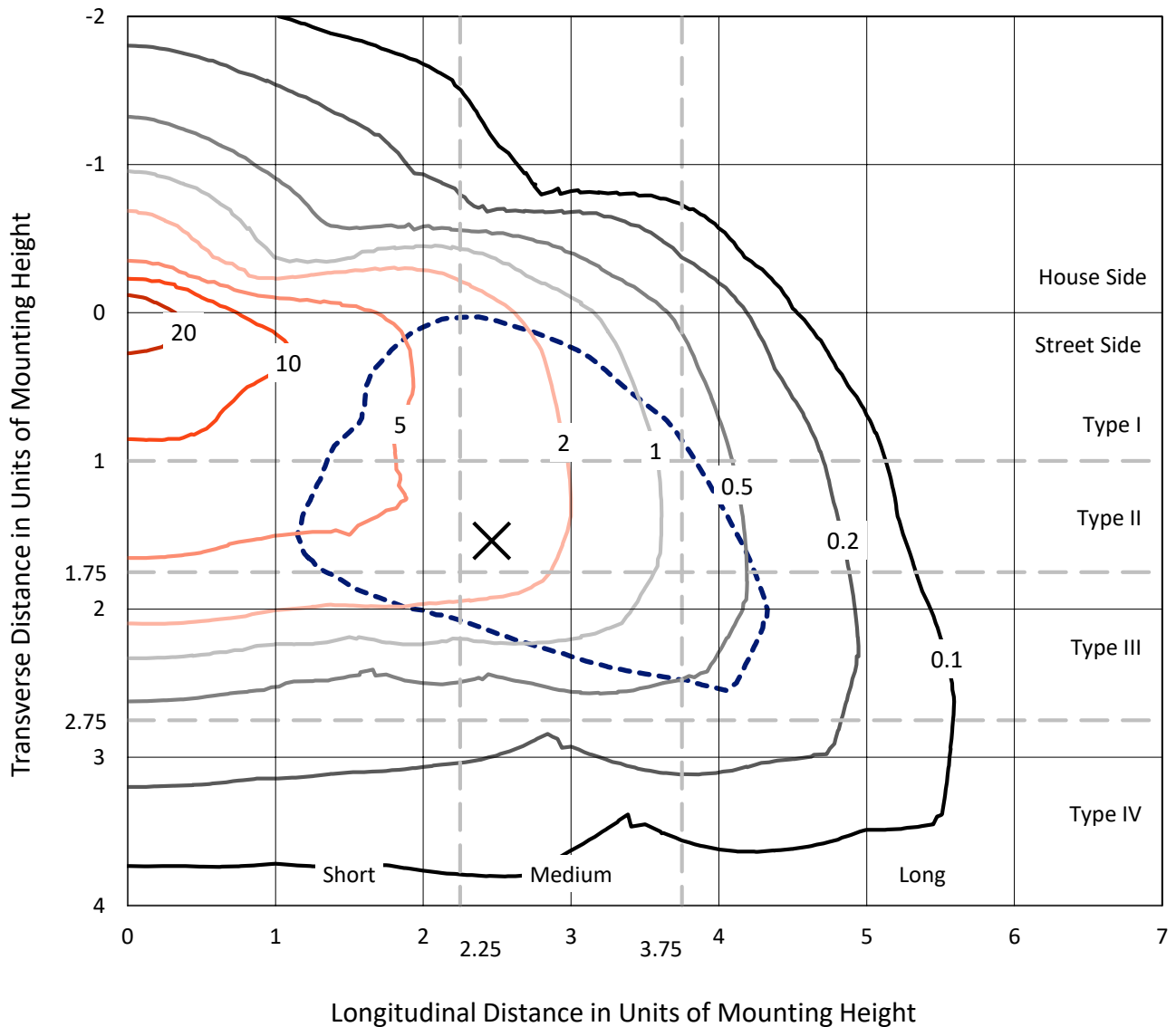
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

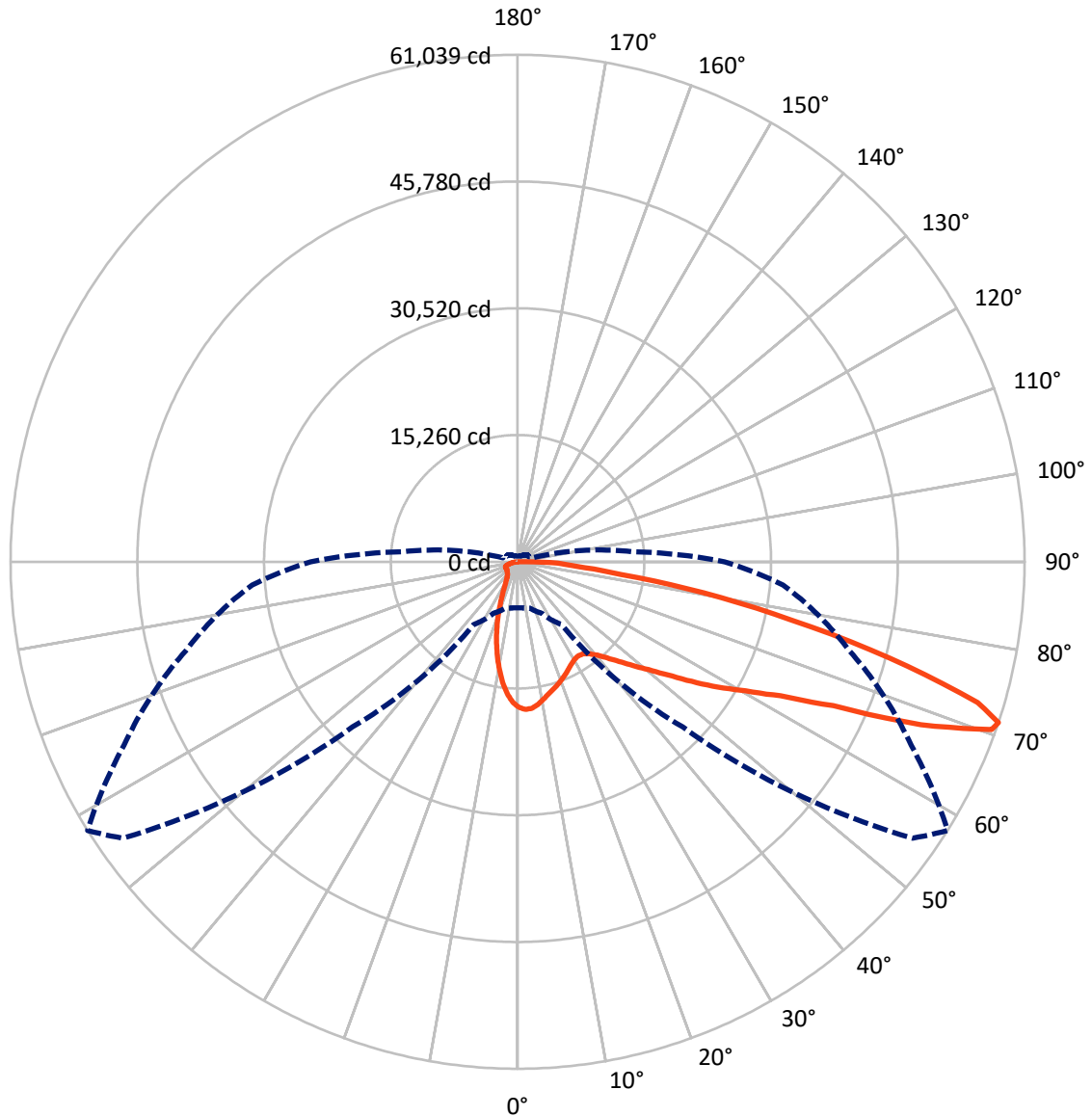
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9445.2	0.0	9445.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	53730.7	0.0	53730.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	63176.0	0.0	63176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1510.1	2.4
10°-20°	3357.8	5.3
20°-30°	4267.4	6.8
30°-40°	5435.9	8.6
40°-50°	7708.3	12.2
50°-60°	11928.9	18.9
60°-70°	16239.7	25.7
70°-80°	10833.8	17.1
80°-90°	1894.1	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	63176.0	100.0
0°-180°	63176.0	100.0

Coefficient of Utilization

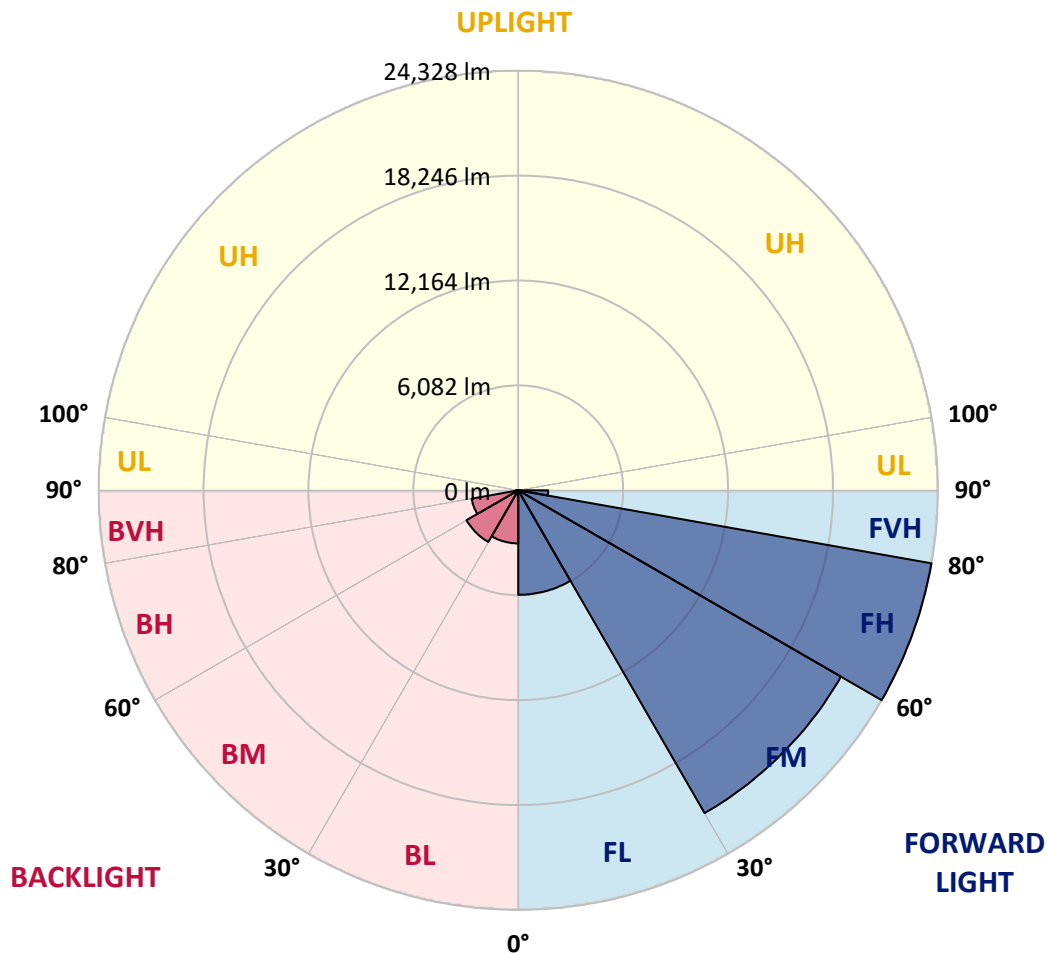


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6056.5	9.6			
FM (30°-60°)	21609.3	34.2			
FH (60°-80°)	24328.3	38.5			G5
FVH (80°-90°)	1736.7	2.7			G5
BL (0°-30°)	3078.9	4.9	B4/5000		
BM (30°-60°)	3463.8	5.5	B3/5000		
BH (60°-80°)	2745.2	4.3	B4/5000		G4/5000
BVH (80°-90°)	157.4	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0
2.5°	17968.3	17944.1	17952.9	17935.3	17893.5	17851.7	17790.1	17801.1	17715.2	17587.6	17429.2
5°	17629.4	17620.6	17686.6	17724.0	17754.8	17730.6	17713.0	17735.0	17609.6	17433.6	17158.5
7.5°	16918.6	16821.8	16905.4	17030.8	17149.7	17239.9	17358.7	17374.1	17294.9	17110.1	16749.2
10°	15908.5	15816.1	15939.3	16135.2	16372.8	16588.5	16828.4	16872.4	16887.8	16720.5	16282.6
12.5°	14861.0	14790.6	14913.8	15188.9	15582.8	15915.1	16298.0	16364.0	16500.5	16388.2	15851.3
15°	13923.5	13897.1	14046.8	14317.4	14770.8	15279.1	15831.5	15952.5	16183.6	16146.2	15514.6
17.5°	13113.7	13107.1	13221.5	13505.4	14007.1	14649.7	15367.1	15571.8	15915.1	15959.1	15237.3
20°	12510.7	12497.5	12576.7	12785.8	13302.9	14031.3	14865.4	15147.1	15642.2	15796.3	14951.2
22.5°	12187.2	12185.0	12187.2	12286.2	12708.8	13386.6	14376.9	14720.2	15375.9	15666.4	14634.3
25°	12132.2	12125.6	12077.2	12066.2	12306.0	12847.4	13892.7	14271.2	15122.9	15576.2	14332.8
27.5°	12275.2	12284.0	12220.2	12116.8	12165.2	12493.1	13472.4	13877.3	14920.4	15558.6	14123.8
30°	12572.3	12567.9	12512.9	12405.1	12310.4	12361.1	13173.1	13578.0	14784.0	15635.6	13980.7
32.5°	12900.2	12924.4	12913.4	12854.0	12713.2	12510.7	13082.9	13479.0	14744.4	15820.5	13919.1
35°	13294.1	13320.5	13399.8	13446.0	13280.9	12955.2	13276.5	13619.8	14858.8	16168.2	14018.1
37.5°	13668.2	13736.5	13958.7	14154.6	14013.7	13650.6	13791.5	14035.7	15213.1	16716.1	14284.4
40°	14099.6	14159.0	14522.1	14938.0	14916.0	14539.7	14621.1	14784.0	15838.1	17501.8	14766.4
42.5°	14524.3	14643.1	15169.1	15758.9	15928.3	15596.0	15725.8	15811.7	16718.3	18542.7	15607.0
45°	15089.9	15217.5	15948.1	16658.9	17055.0	16868.0	17074.8	17107.9	17825.3	19959.9	16828.4
47.5°	15945.9	16091.2	16942.8	17688.8	18294.0	18313.8	18654.9	18641.7	19207.3	21581.8	18366.6
50°	17279.5	17488.6	18186.2	18883.8	19618.8	20028.1	20483.7	20419.8	20864.4	23309.3	20138.2
52.5°	19026.8	19123.7	19640.8	20155.8	21069.0	21986.7	22640.3	22583.1	22743.7	25085.2	22149.5
55°	20838.0	20910.6	21124.0	21405.7	22633.7	24130.1	25512.1	25421.9	25014.8	26929.4	24136.7
57.5°	22466.4	22613.9	22761.3	22878.0	24209.4	26370.4	28450.0	28456.6	27479.5	28918.8	26189.9
60°	22719.5	22849.4	23824.2	24744.1	26905.2	29358.9	31594.7	31528.7	30030.1	31077.6	28478.6
62.5°	20083.1	20375.8	22004.3	24451.4	29501.9	34825.3	35606.5	35525.1	33080.2	33738.2	31143.6
65°	14392.3	14724.6	16689.7	20367.0	28243.2	40848.5	42846.7	41750.7	37239.4	37010.5	34264.1
67.5°	8303.1	8382.3	9233.9	12187.2	21504.8	41163.2	53891.7	52357.9	43698.3	40723.0	35791.4
70°	6139.8	6137.6	6340.1	7499.8	11637.0	33595.1	59144.7	60520.1	50498.3	41944.4	33632.5
71°	5552.2	5558.8	5785.5	6826.4	9216.3	28119.9	58029.0	61039.4	52289.7	41341.4	32070.1
72.5°	4749.0	4771.0	5085.7	6122.2	7752.9	19392.1	53222.7	57923.3	53139.1	39853.8	29625.2
75°	3602.5	3653.1	4088.8	5160.5	7086.1	9834.7	39061.5	46253.3	47206.2	35166.4	22013.1
77.5°	2570.4	2627.6	3120.5	4339.7	6736.2	7411.8	26159.1	33738.2	34739.5	22536.9	9929.3
80°	1624.1	1692.3	2064.2	3452.8	6329.1	7037.7	16438.9	22677.7	18943.2	7211.5	2526.3
82.5°	952.9	1005.7	1280.8	2255.7	5169.3	6778.0	9671.9	12570.1	7372.2	2178.6	1148.7
85°	552.4	576.6	798.8	1437.0	3754.3	6397.3	7105.9	7026.7	3199.7	1065.1	543.6
87.5°	257.5	286.1	473.1	750.4	2084.0	4636.8	5616.1	4852.4	1989.4	499.5	255.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0	17504.0
2.5°	17352.1	17314.7	17158.5	17019.8	16874.6	16685.3	16476.3	16449.9	16322.2	16346.4	16302.4
5°	17008.8	16914.2	16537.9	16196.8	15794.1	15433.2	15041.4	14861.0	14601.3	14583.7	14517.7
7.5°	16518.1	16342.0	15758.9	15111.9	14464.9	13848.7	13239.1	12838.6	12429.3	12255.4	12240.0
10°	15965.7	15666.4	14808.2	13850.9	12917.8	12017.8	11146.3	10501.5	9920.5	9645.5	9634.4
12.5°	15442.0	14999.6	13822.3	12519.5	11243.1	10076.8	8881.8	8034.6	7306.2	7061.9	6958.5
15°	14997.4	14374.7	12862.8	11196.9	9647.7	8028.0	6668.0	5776.7	5103.3	4870.0	4826.0
17.5°	14566.1	13765.1	11879.1	9861.1	7988.4	6208.0	4845.8	4183.4	3824.7	3730.1	3727.9
20°	14137.0	13137.9	10851.4	8494.5	6384.1	4643.4	3725.7	3428.6	3307.6	3296.6	3279.0
22.5°	13650.6	12473.3	9770.9	7123.5	4982.3	3650.9	3166.7	3047.9	3032.5	3072.1	3072.1
25°	13195.1	11813.1	8675.0	5781.1	3875.3	3045.7	2827.8	2803.6	2845.4	2915.9	2922.5
27.5°	12770.4	11177.1	7605.4	4588.4	3105.1	2682.6	2592.4	2621.0	2695.8	2777.2	2779.4
30°	12420.5	10576.3	6566.7	3615.7	2623.2	2411.9	2396.5	2453.7	2535.1	2599.0	2614.4
32.5°	12149.8	10063.6	5563.2	2907.1	2308.5	2209.5	2222.7	2271.1	2321.7	2356.9	2381.1
35°	12024.4	9623.4	4636.8	2451.5	2108.2	2053.2	2070.8	2097.2	2119.2	2145.6	2165.4
37.5°	12046.4	9282.3	3809.3	2167.6	1974.0	1945.4	1945.4	1945.4	1945.4	1958.6	1960.8
40°	12251.0	9086.5	3135.9	1987.2	1883.8	1852.9	1828.7	1806.7	1789.1	1797.9	1793.5
42.5°	12774.8	9068.9	2643.0	1872.8	1811.1	1760.5	1712.1	1681.3	1659.3	1668.1	1672.5
45°	13663.8	9288.9	2310.7	1791.3	1742.9	1665.9	1604.3	1571.3	1555.9	1584.5	1588.9
47.5°	14814.8	9768.7	2108.2	1731.9	1679.1	1577.9	1511.8	1481.0	1485.4	1527.3	1538.3
50°	16298.0	10547.7	2011.4	1694.5	1635.1	1503.0	1434.8	1408.4	1421.6	1481.0	1494.2
52.5°	17926.5	11670.1	2022.4	1683.5	1606.5	1448.0	1375.4	1344.6	1366.6	1421.6	1432.6
55°	19805.9	13019.0	2205.1	1698.9	1564.7	1412.8	1327.0	1274.2	1291.8	1342.4	1351.2
57.5°	21894.3	14563.9	2572.6	1694.5	1511.8	1379.8	1276.4	1197.2	1210.4	1241.2	1250.0
60°	24068.5	16430.1	3142.5	1707.7	1487.6	1340.2	1208.2	1109.1	1104.7	1131.1	1135.5
62.5°	26678.5	18588.9	3793.9	1716.5	1503.0	1289.6	1117.9	1021.1	1007.9	1014.5	1018.9
65°	29367.7	20151.4	3549.6	1681.3	1551.5	1247.8	1038.7	935.3	911.1	906.7	908.9
67.5°	29451.3	18476.7	2488.9	1610.9	1571.3	1225.8	979.3	862.7	823.0	807.6	805.4
70°	26412.2	15010.6	1938.8	1536.1	1492.0	1190.6	924.3	803.2	743.8	719.6	717.4
71°	24929.0	13817.9	1837.5	1498.6	1432.6	1155.3	900.1	776.8	715.2	688.8	684.4
72.5°	22602.9	12387.5	1714.3	1439.2	1318.2	1065.1	853.9	739.4	675.6	644.8	638.2
75°	16221.0	8100.6	1472.2	1283.0	1091.5	849.5	748.2	664.6	609.6	572.2	567.8
77.5°	6249.8	3224.0	1113.5	1067.3	836.2	664.6	616.2	574.4	534.8	497.3	495.1
80°	1932.2	1441.4	812.0	803.2	605.2	495.1	479.7	468.7	453.3	413.7	404.9
82.5°	1032.1	827.4	559.0	519.4	396.1	330.1	347.7	352.1	354.3	312.5	308.1
85°	492.9	437.9	314.7	294.9	231.1	184.9	213.5	231.1	233.3	191.5	178.3
87.5°	235.5	228.9	147.4	112.2	85.8	61.6	74.8	92.4	101.2	72.6	63.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)