

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: P481032

Luminaire Tested: **IFLD-L-SA7E-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481032
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

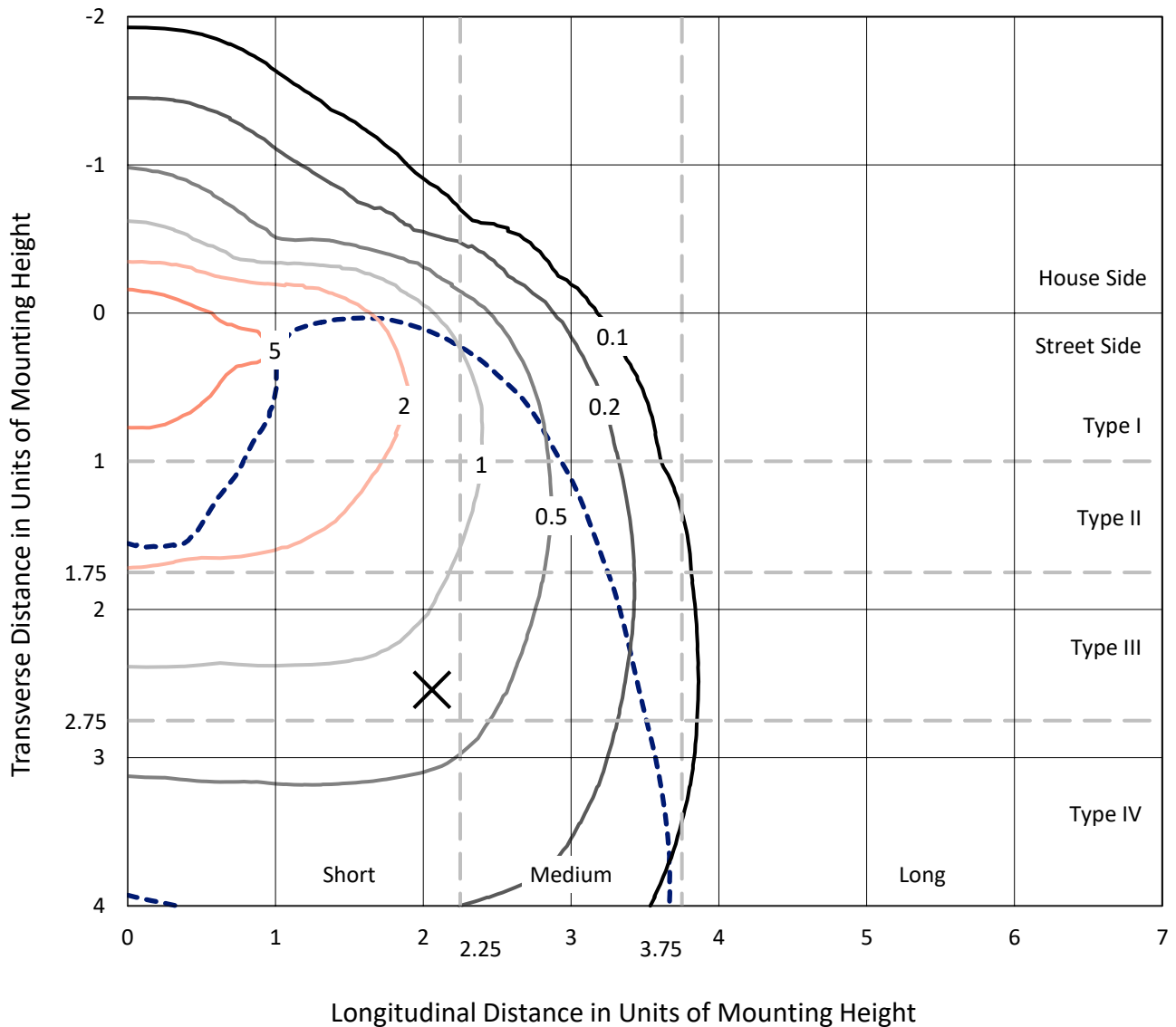
Lumens per Lamp: N/A
Luminaire Lumens: 40139.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
Input Voltage (V): 120
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

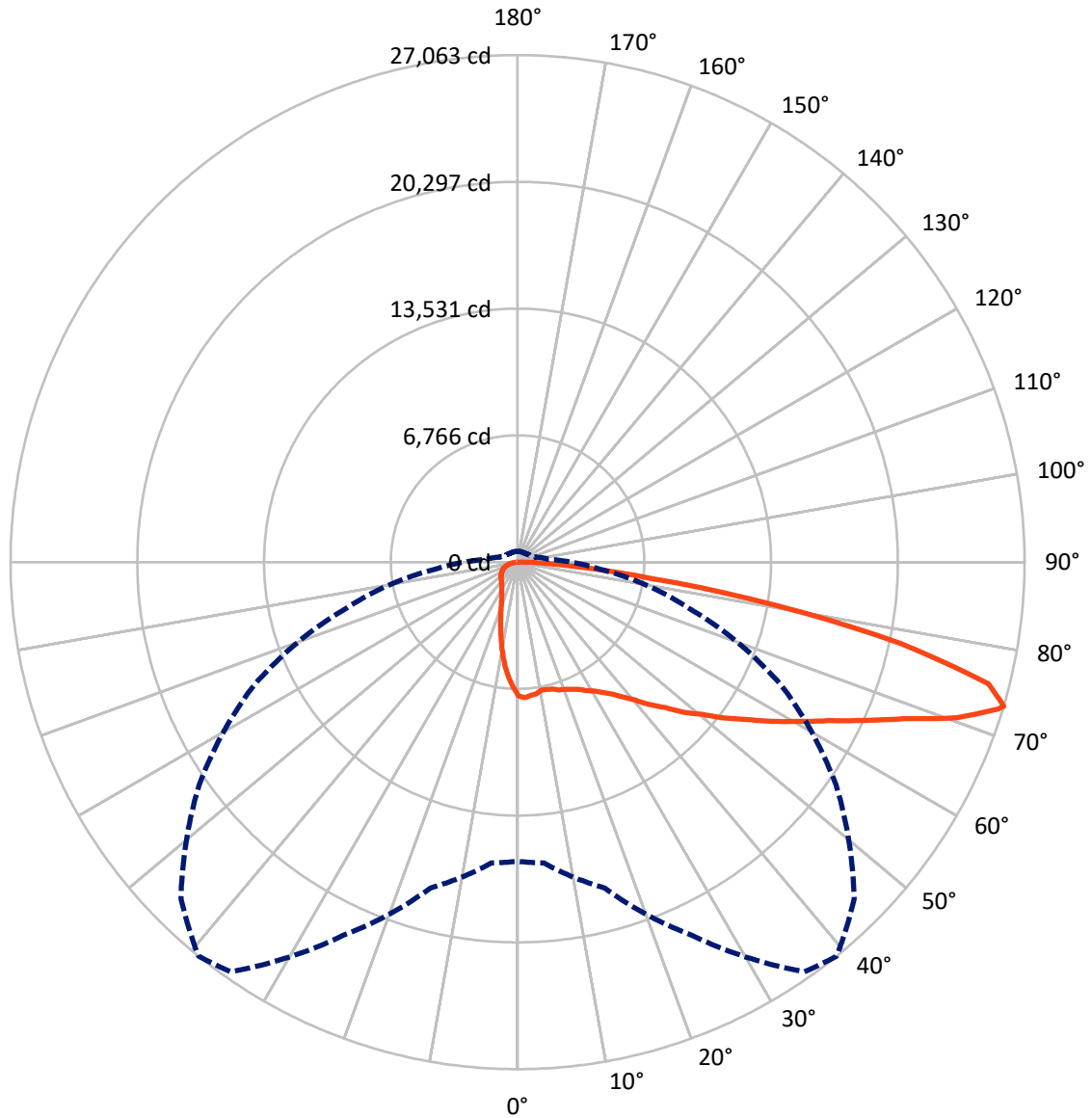
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5642.5	0.0	5642.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34497.1	0.0	34497.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	40139.7	0.0	40139.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.3	1.5
10°-20°	1576.8	3.9
20°-30°	2409.5	6.0
30°-40°	3513.1	8.8
40°-50°	5308.6	13.2
50°-60°	7687.2	19.2
60°-70°	9767.0	24.3
70°-80°	7917.6	19.7
80°-90°	1339.6	3.3
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°	40139.7	100.0
0°-180°	40139.7	100.0

Coefficient of Utilization



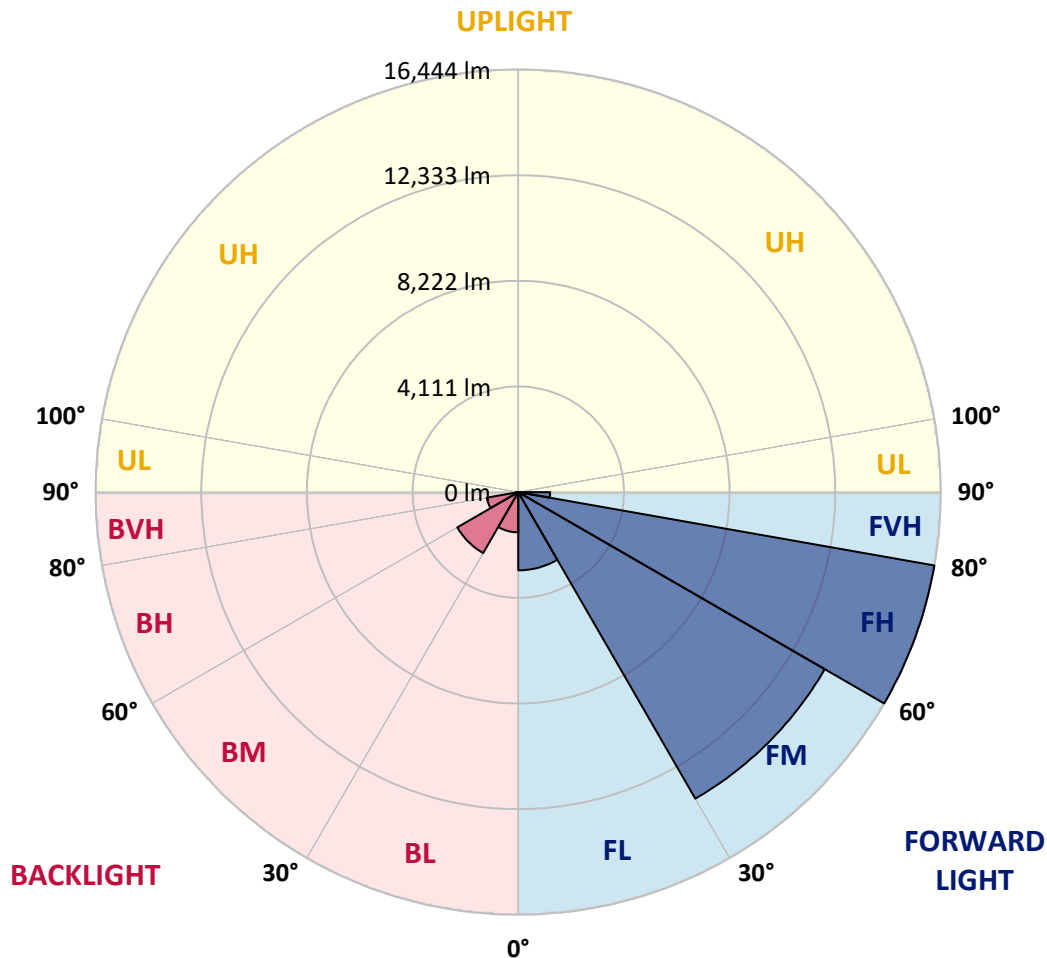
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3041.7	7.6			
FM (30°-60°)	13770.5	34.3			
FH (60°-80°)	16443.6	41.0			G5
FVH (80°-90°)	1241.3	3.1			G5
BL (0°-30°)	1564.8	3.9	B3/2500		
BM (30°-60°)	2738.5	6.8	B3/5000		
BH (60°-80°)	1241.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	98.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1
2.5°	7315.8	7239.4	7252.9	7225.9	7252.9	7243.9	7230.4	7163.1	7230.4	7163.1	7145.1
5°	7217.0	7217.0	7261.9	7194.5	7203.5	7158.6	7203.5	7154.1	7109.2	6996.9	6965.5
7.5°	7185.5	7181.0	7185.5	7091.2	7136.1	7109.2	7064.3	7010.4	6920.6	6848.7	6745.4
10°	6970.0	7014.9	6965.5	6992.4	7028.3	6947.5	6943.0	6929.5	6889.1	6794.8	6731.9
12.5°	6853.2	6929.5	6956.5	6934.0	6965.5	6974.4	6947.5	6929.5	6880.1	6817.3	6637.6
15°	6902.6	6812.8	6889.1	7037.3	7005.9	7028.3	7032.8	7014.9	6992.4	6875.6	6758.9
17.5°	6916.1	6862.2	7023.8	7055.3	7095.7	7176.5	7122.6	7118.2	7032.8	6952.0	6781.3
20°	6947.5	6925.0	7055.3	7221.4	7225.9	7239.4	7266.4	7199.0	7154.1	7014.9	6754.4
22.5°	7064.3	7140.6	7261.9	7333.7	7374.1	7383.1	7383.1	7248.4	7199.0	7086.7	6880.1
25°	7414.6	7333.7	7504.4	7589.7	7531.3	7517.9	7486.4	7365.2	7311.3	7212.5	6938.5
27.5°	7670.5	7666.1	7764.9	7881.6	7724.4	7755.9	7643.6	7607.7	7486.4	7432.5	7041.8
30°	8020.8	8119.6	8115.1	8151.1	7944.5	7980.4	7836.7	7769.3	7702.0	7733.4	7347.2
32.5°	8469.9	8434.0	8492.4	8465.4	8258.9	8290.3	8119.6	8016.3	8038.8	8133.1	7764.9
35°	8757.4	8721.4	8743.9	8743.9	8681.0	8645.1	8573.2	8438.5	8546.3	8721.4	8231.9
37.5°	9067.2	9112.1	9242.4	9215.4	9134.6	9134.6	9125.6	9031.3	9170.5	9601.7	8977.4
40°	9341.2	9462.4	9543.3	9597.2	9691.5	9691.5	9767.8	9713.9	9965.4	10657.0	9889.1
42.5°	9628.6	9633.1	10073.2	10113.6	10324.7	10414.5	10472.9	10517.8	10989.4	11761.8	10863.6
45°	9996.9	10019.3	10405.5	10715.4	11043.2	11074.7	11294.7	11442.9	12022.3	12969.9	11923.5
47.5°	10481.9	10454.9	10868.1	11362.1	11770.8	11986.3	12251.3	12413.0	13127.0	14281.2	13082.1
50°	11119.6	11038.8	11276.8	12053.7	12534.2	12772.3	13243.8	13513.3	14348.6	15534.2	13877.0
52.5°	11896.5	11761.8	11950.4	12799.2	13338.1	13818.7	14267.8	14568.6	15439.9	16504.2	14465.4
55°	12718.4	12439.9	12493.8	13589.6	14366.6	14820.1	15435.4	15749.8	16639.0	17375.5	15053.7
57.5°	13531.2	13356.1	13248.3	14348.6	15592.6	16028.2	16594.1	17002.7	17757.2	18147.9	15552.2
60°	14213.9	14168.9	13993.8	15525.2	16890.5	17263.2	17856.0	18107.5	18677.9	18862.0	15561.1
62.5°	14775.2	14622.5	14901.0	16472.8	18210.8	18633.0	19284.1	19306.6	19710.8	19306.6	15103.1
65°	15215.3	15224.3	15668.9	17618.0	19737.7	20362.0	20887.4	20829.0	20568.6	19041.6	14020.7
67.5°	15615.0	15785.7	16436.9	18875.5	21700.3	22288.6	22872.4	22100.0	20802.1	17802.1	11905.5
70°	15929.4	16100.1	17474.3	20406.9	24013.1	24875.4	25005.6	22603.0	19728.7	15080.6	8981.9
72.5°	15893.5	16203.3	18062.6	21628.4	26065.5	26811.0	25760.1	21188.3	16436.9	10513.3	5240.9
73°	15969.8	16122.5	18013.2	21969.7	26689.7	27062.5	25409.8	20743.7	15502.8	9431.0	4432.6
75°	14496.8	15013.2	17119.5	21412.9	26020.6	25953.2	23397.9	17285.7	11020.8	4953.5	2146.7
77.5°	10724.4	11052.2	13490.8	17609.0	21359.0	20927.8	17649.4	11047.7	5232.0	1836.8	1158.7
80°	5240.9	5496.9	7149.6	10167.5	13966.9	14002.8	10953.4	5748.4	2241.0	1037.4	790.4
82.5°	2618.2	2770.9	3435.6	4468.5	6871.2	7199.0	5555.3	3269.4	1387.7	588.3	449.1
85°	1711.1	1818.8	2115.2	2187.1	2914.6	3076.3	2586.8	2550.9	902.7	318.9	363.8
87.5°	1136.2	1154.2	1297.9	1104.8	1167.6	1122.7	1248.5	1607.8	265.0	134.7	98.8
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°	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1	7145.1
2.5°	7122.6	7059.8	6992.4	6898.1	6830.7	6727.4	6633.1	6592.7	6583.7	6588.2	6543.3
5°	6938.5	6848.7	6714.0	6520.9	6408.6	6237.9	6094.2	6017.9	5937.0	5950.5	5914.6
7.5°	6682.5	6583.7	6377.1	6152.6	5874.2	5631.7	5496.9	5308.3	5200.5	5119.7	5164.6
10°	6601.7	6431.0	6121.2	5811.3	5380.2	5061.3	4751.4	4535.9	4387.7	4243.9	4306.8
12.5°	6561.3	6390.6	5959.5	5501.4	4944.5	4459.5	4023.9	3758.9	3547.9	3422.1	3471.5
15°	6525.4	6314.3	5806.8	5160.1	4535.9	3898.1	3408.6	3058.3	2856.2	2735.0	2748.5
17.5°	6574.8	6273.9	5582.3	4827.8	4086.8	3404.1	2860.7	2497.0	2290.4	2214.0	2196.1
20°	6525.4	6228.9	5362.2	4495.4	3637.7	2932.6	2411.6	2110.7	1967.0	1904.2	1890.7
22.5°	6543.3	6121.2	5133.2	4127.2	3220.0	2537.4	2110.7	1881.7	1769.4	1738.0	1747.0
25°	6628.6	6058.3	4904.1	3723.0	2806.8	2245.5	1917.6	1742.5	1661.7	1630.2	1639.2
27.5°	6691.5	6112.2	4697.5	3341.3	2456.5	1985.0	1756.0	1639.2	1585.3	1562.9	1558.4
30°	6848.7	6143.6	4495.4	3000.0	2169.1	1814.3	1643.7	1549.4	1513.5	1500.0	1495.5
32.5°	7082.2	6202.0	4261.9	2685.6	1958.1	1652.7	1553.9	1473.0	1464.0	1450.6	1455.1
35°	7464.0	6404.1	4001.4	2416.1	1756.0	1544.9	1459.6	1405.7	1405.7	1405.7	1419.1
37.5°	8011.9	6687.0	3767.9	2160.1	1625.7	1450.6	1378.7	1360.8	1351.8	1365.2	1374.2
40°	8716.9	7028.3	3579.3	1958.1	1513.5	1387.7	1324.8	1315.8	1311.4	1306.9	1315.8
42.5°	9489.4	7464.0	3417.6	1800.9	1432.6	1320.3	1275.4	1266.4	1248.5	1257.5	1270.9
45°	10257.3	8002.9	3273.9	1675.1	1378.7	1284.4	1221.5	1217.0	1208.1	1203.6	1226.0
47.5°	11110.6	8532.8	3229.0	1598.8	1338.3	1230.5	1185.6	1181.1	1154.2	1149.7	1167.6
50°	11775.3	8923.5	3278.4	1562.9	1279.9	1190.1	1158.7	1136.2	1113.8	1091.3	1091.3
52.5°	12233.3	9193.0	3314.3	1535.9	1248.5	1136.2	1095.8	1086.8	1064.4	1041.9	1032.9
55°	12646.5	9354.7	3323.3	1540.4	1217.0	1073.3	1046.4	1041.9	1028.4	992.5	983.5
57.5°	12785.7	9287.3	3143.7	1500.0	1199.1	1032.9	997.0	1006.0	988.0	956.6	952.1
60°	12772.3	8820.2	2735.0	1446.1	1158.7	988.0	943.1	970.0	970.0	934.1	929.6
62.5°	11995.3	7742.4	2236.5	1342.8	1113.8	943.1	893.7	934.1	947.6	925.1	920.6
65°	10383.1	6305.3	1868.2	1239.5	1046.4	893.7	844.3	889.2	911.7	902.7	898.2
67.5°	8591.2	4823.3	1553.9	1104.8	961.1	826.3	785.9	817.4	830.8	835.3	839.8
70°	6071.8	3211.0	1297.9	956.6	844.3	754.5	709.6	714.1	709.6	723.0	723.0
72.5°	3300.8	1850.3	1055.4	812.9	727.5	655.7	624.2	601.8	601.8	597.3	597.3
73°	2824.8	1661.7	1006.0	790.4	696.1	637.7	601.8	583.8	583.8	579.3	574.8
75°	1585.3	1217.0	862.3	678.1	601.8	556.9	529.9	503.0	498.5	498.5	498.5
77.5°	1041.9	947.6	687.1	543.4	485.0	444.6	435.6	408.7	408.7	408.7	404.2
80°	781.4	745.5	529.9	413.2	372.7	341.3	332.3	314.4	309.9	291.9	296.4
82.5°	521.0	588.3	386.2	291.9	251.5	233.5	233.5	229.0	215.6	193.1	193.1
85°	413.2	480.5	278.4	179.6	148.2	125.7	130.2	125.7	121.3	98.8	94.3
87.5°	76.3	193.1	80.8	49.4	35.9	22.5	22.5	13.5	9.0	0.0	0.0
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)