

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: P476910

Luminaire Tested: **IFLD-S-SA3C-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476910
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

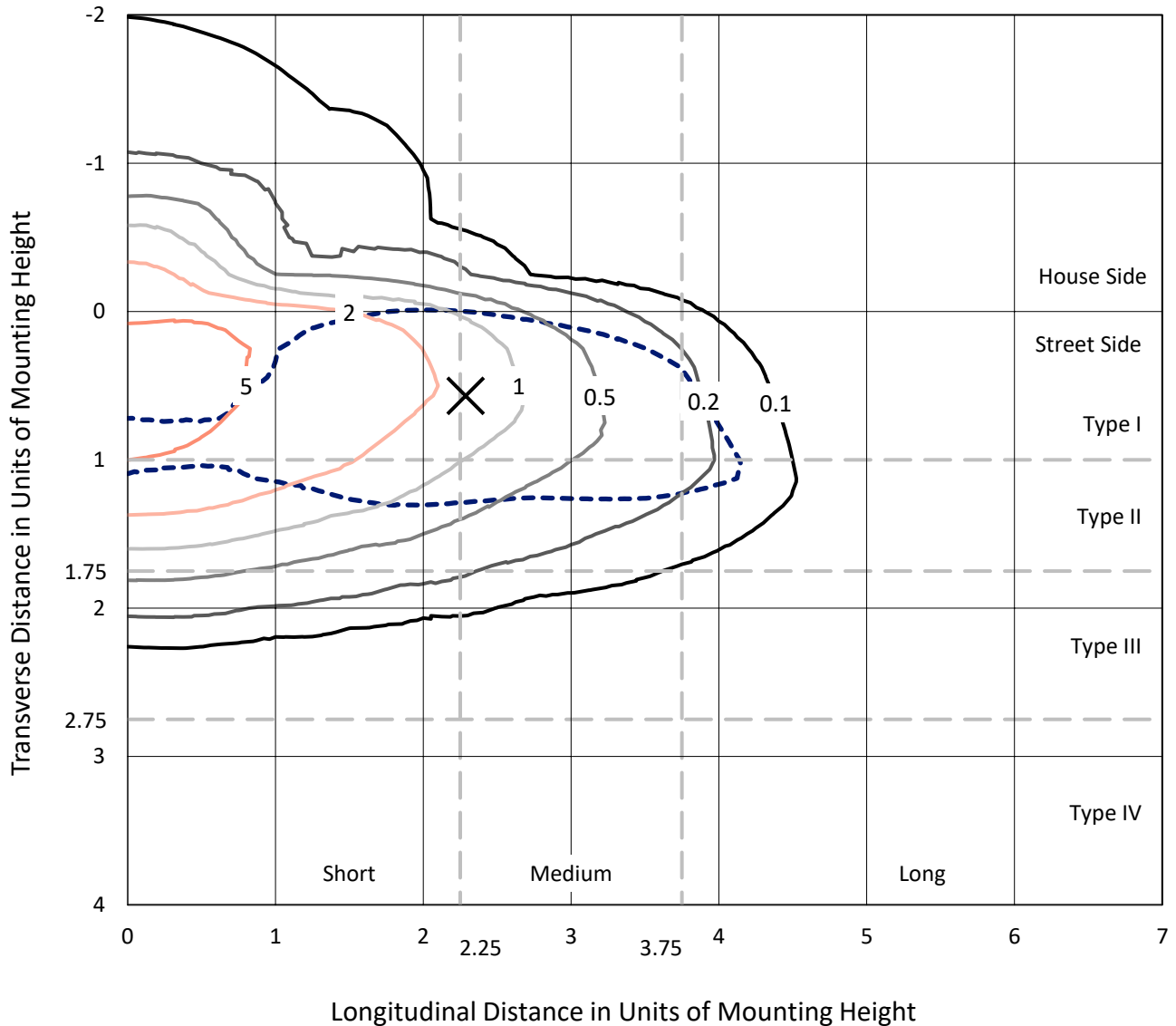
Lumens per Lamp: N/A
Luminaire Lumens: 19396.7 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

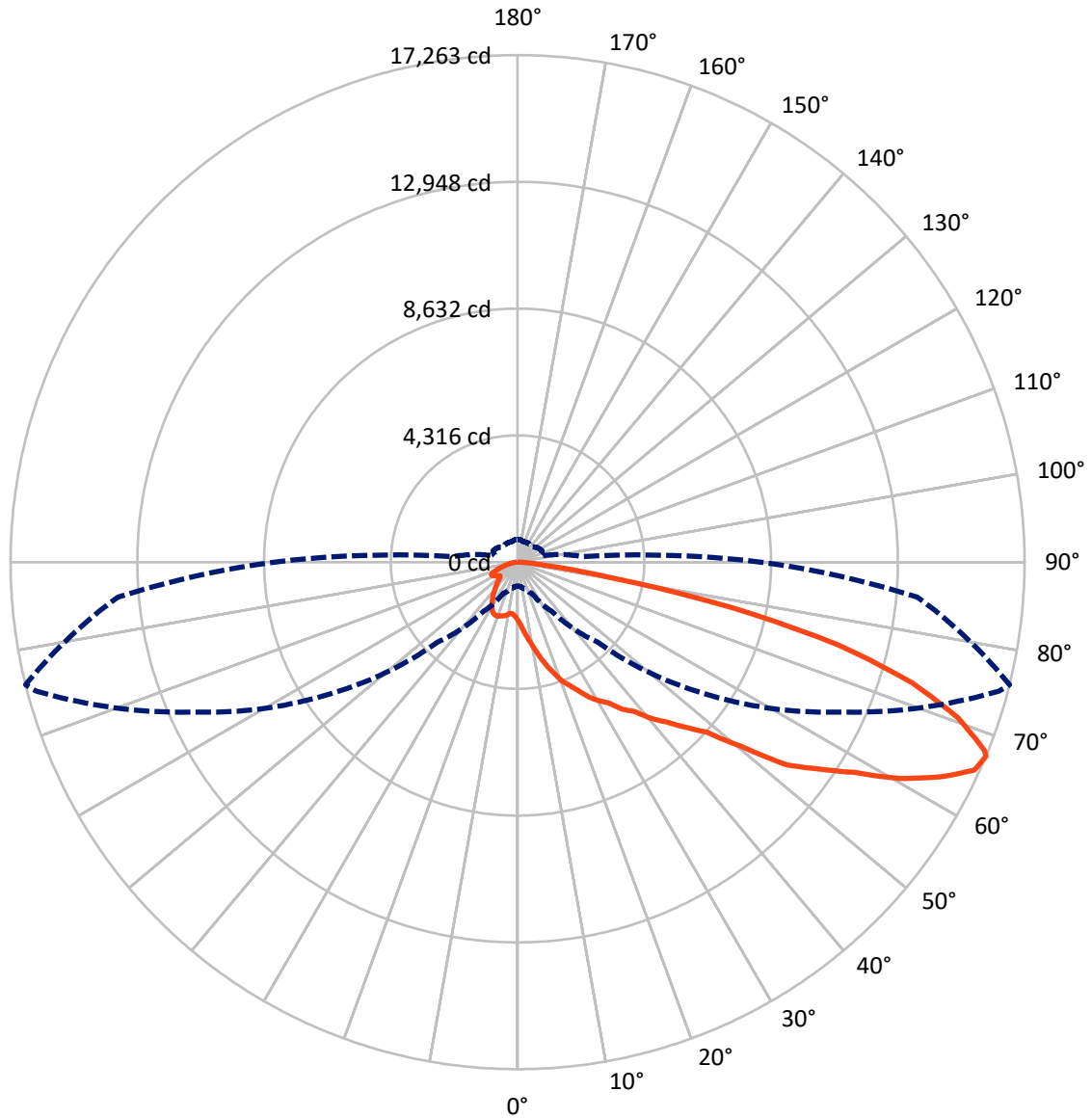
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2759.4	0.0	2759.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16637.3	0.0	16637.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	19396.7	0.0	19396.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	1.2
10°-20°	862.4	4.4
20°-30°	1603.2	8.3
30°-40°	2541.5	13.1
40°-50°	3515.1	18.1
50°-60°	4323.8	22.3
60°-70°	4023.5	20.7
70°-80°	2019.0	10.4
80°-90°	278.4	1.4
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°	19396.7	100.0
0°-180°	19396.7	100.0

Coefficient of Utilization



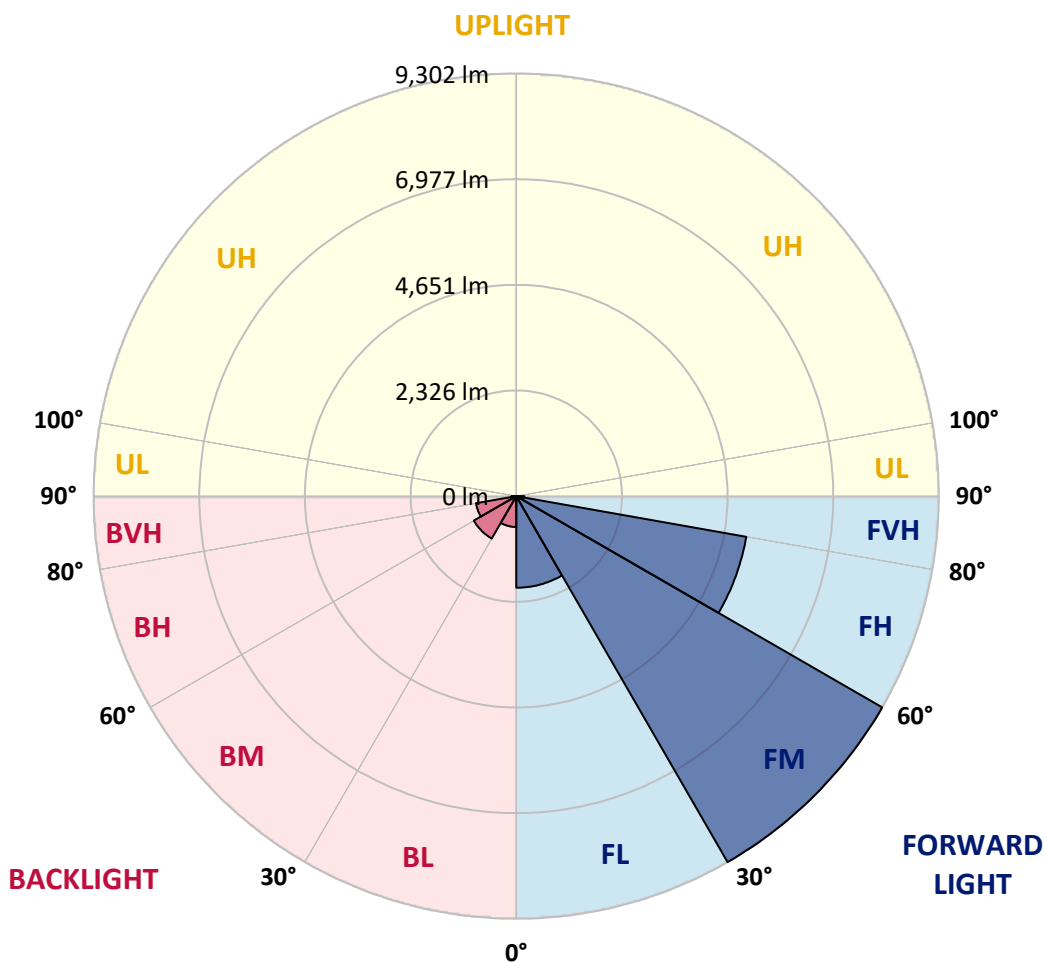
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.0	10.4			
FM (30°-60°)	9302.0	48.0			
FH (60°-80°)	5141.9	26.5			G3/7500
FVH (80°-90°)	177.4	0.9			G2/225
BL (0°-30°)	679.5	3.5	B2/1000		
BM (30°-60°)	1078.3	5.6	B2/2500		
BH (60°-80°)	900.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	101.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0
2.5°	2754.2	2721.0	2687.9	2617.1	2592.8	2526.5	2404.9	2270.1	2159.6	2144.1	2066.7
5°	3417.3	3368.7	3357.6	3317.8	3191.8	3063.6	2864.7	2648.1	2378.4	2398.3	2133.1
7.5°	3914.7	3885.9	3826.2	3788.7	3713.5	3543.3	3337.7	3050.4	2707.8	2641.5	2281.2
10°	4290.4	4250.6	4248.4	4215.3	4175.5	4000.9	3843.9	3457.1	3017.2	2926.6	2462.4
12.5°	4480.5	4473.9	4591.0	4591.0	4575.6	4502.6	4233.0	3879.3	3311.2	3280.3	2672.4
15°	4686.1	4630.8	4732.5	4809.9	4849.7	4887.2	4664.0	4290.4	3687.0	3627.3	2897.9
17.5°	4686.1	4681.7	4783.3	4911.6	5119.3	5168.0	5046.4	4668.4	3998.6	3954.4	3145.4
20°	4606.5	4670.6	4741.4	4913.8	5139.2	5336.0	5371.3	5055.2	4343.5	4308.1	3426.2
22.5°	4977.9	4916.0	4988.9	5055.2	5229.9	5528.3	5625.5	5395.6	4706.0	4571.1	3680.3
25°	5601.2	5559.2	5506.2	5408.9	5481.8	5612.3	5760.4	5647.6	5015.4	4865.1	3925.7
27.5°	6209.1	6211.3	6096.3	5884.1	5727.2	5753.7	5928.3	5868.7	5276.3	5210.0	4093.7
30°	7073.3	7020.3	6892.1	6604.7	6297.5	6045.5	6016.8	6074.2	5607.8	5479.6	4334.6
32.5°	7721.0	7732.0	7550.8	7137.4	6717.5	6511.9	6259.9	6284.2	5817.8	5722.8	4526.9
35°	8244.9	8231.6	8103.4	7760.8	7263.4	7015.9	6675.5	6536.2	6306.3	6156.0	4820.9
37.5°	8810.7	8702.4	8494.6	8107.8	7789.5	7446.9	7115.3	6801.5	6631.3	6450.0	5072.9
40°	9038.4	9038.4	8759.9	8583.1	8205.1	7946.5	7732.0	7150.7	7026.9	6991.6	5395.6
42.5°	8877.0	8976.5	8861.6	8660.4	8505.7	8178.6	8121.1	7513.2	7515.4	7444.7	5782.5
45°	8861.6	8724.5	8629.5	8680.3	8607.4	8589.7	8735.6	8015.0	8028.2	8019.4	6301.9
47.5°	8417.3	8355.4	8496.9	8580.9	8640.5	8914.6	9334.6	8614.0	8709.1	8642.7	6900.9
50°	7975.2	7964.1	8052.6	8357.6	8616.2	9067.1	9904.9	9538.0	9849.6	9845.2	7986.2
52.5°	6763.9	6881.0	7228.1	7873.5	8512.3	9274.9	10335.9	10718.3	11312.9	11474.3	8885.9
55°	5605.6	5543.7	6056.6	6993.8	8059.2	9356.7	10817.8	11427.9	12303.2	12420.4	9809.8
57.5°	4361.2	4476.1	4880.6	5780.2	7122.0	8952.2	11171.5	12128.6	13421.7	13512.3	10881.9
60°	3253.7	3269.2	3713.5	4438.5	5875.3	8039.3	11286.4	12847.0	14703.7	14962.3	12004.8
62.5°	2046.8	2139.7	2477.9	3191.8	4423.1	6761.7	10771.4	13282.4	16047.6	16116.2	13136.5
65°	1103.0	1162.7	1416.9	1865.6	3090.2	5114.9	9405.3	13021.6	16679.8	17086.5	13640.5
67°	815.6	826.7	943.8	1191.4	2066.7	3850.6	7842.6	12077.7	16967.2	17263.4	13660.4
67.5°	764.8	780.3	873.1	1069.8	1832.4	3545.5	7433.6	11741.8	16839.0	17157.3	13505.7
70°	654.3	658.7	680.8	736.1	1027.8	2133.1	5061.9	9622.0	15607.8	15912.8	12420.4
72.5°	581.3	585.8	594.6	605.7	696.3	1233.4	3079.1	7404.9	13565.3	14051.6	10716.1
75°	510.6	526.1	530.5	521.7	592.4	802.4	1637.9	5442.1	11065.4	11301.9	8333.3
77.5°	433.2	439.9	448.7	457.6	528.3	599.0	786.9	3673.7	7595.0	7451.3	4507.0
80°	364.7	366.9	373.6	380.2	457.6	457.6	446.5	1985.0	3317.8	3172.0	1523.0
82.5°	260.8	276.3	291.8	309.5	380.2	307.2	291.8	884.2	1049.9	999.1	515.0
85°	101.7	123.8	192.3	212.2	240.9	165.8	194.5	382.4	437.7	433.2	192.3
87.5°	17.7	19.9	53.1	81.8	88.4	57.5	92.8	137.0	163.6	176.8	70.7
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°	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0
2.5°	2002.6	1934.1	1852.3	1770.5	1717.5	1633.5	1626.9	1576.0	1569.4	1551.7	1560.6
5°	2018.1	1936.3	1770.5	1640.1	1580.5	1531.8	1542.9	1520.8	1514.1	1503.1	1485.4
7.5°	2139.7	1978.3	1730.8	1618.0	1573.8	1551.7	1551.7	1525.2	1505.3	1518.6	1531.8
10°	2219.3	1998.2	1761.7	1649.0	1613.6	1565.0	1582.7	1549.5	1560.6	1534.0	1534.0
12.5°	2347.5	2111.0	1825.8	1695.4	1637.9	1593.7	1611.4	1573.8	1565.0	1567.2	1560.6
15°	2519.9	2186.1	1854.5	1721.9	1682.1	1626.9	1613.6	1580.5	1547.3	1536.2	1549.5
17.5°	2681.2	2278.9	1874.4	1737.4	1673.3	1611.4	1595.9	1553.9	1542.9	1509.7	1483.2
20°	2873.5	2389.5	1901.0	1750.7	1640.1	1578.2	1538.5	1496.5	1458.9	1439.0	1447.8
22.5°	3001.8	2446.9	1914.2	1724.1	1591.5	1534.0	1450.0	1421.3	1368.2	1346.1	1328.5
25°	3211.7	2517.7	1881.1	1651.2	1505.3	1412.5	1337.3	1297.5	1259.9	1231.2	1222.4
27.5°	3264.8	2570.7	1803.7	1527.4	1368.2	1271.0	1206.9	1158.3	1133.9	1089.7	1080.9
30°	3419.5	2517.7	1688.8	1377.1	1237.8	1138.4	1074.3	1038.9	981.4	970.4	946.1
32.5°	3519.0	2533.1	1542.9	1231.2	1087.5	999.1	957.1	921.7	906.3	853.2	840.0
35°	3684.8	2480.1	1394.8	1096.4	963.7	895.2	859.9	848.8	798.0	773.6	751.5
37.5°	3790.9	2449.1	1246.7	943.8	828.9	800.2	811.2	764.8	702.9	656.5	641.0
40°	3976.5	2438.1	1078.7	817.9	736.1	729.4	764.8	676.4	563.7	523.9	501.8
42.5°	4244.0	2362.9	948.3	705.1	663.1	691.9	698.5	563.7	499.6	466.4	450.9
45°	4500.4	2378.4	820.1	583.6	576.9	618.9	603.4	477.5	439.9	415.6	428.8
47.5°	4993.3	2455.8	694.1	486.3	519.4	559.2	468.6	426.6	391.2	373.6	375.8
50°	5755.9	2530.9	583.6	444.3	490.7	506.2	402.3	386.8	384.6	349.2	347.0
52.5°	6213.5	2502.2	563.7	497.3	526.1	506.2	437.7	426.6	408.9	393.5	375.8
55°	6940.7	2586.2	605.7	581.3	596.8	486.3	490.7	486.3	473.0	433.2	444.3
57.5°	7519.8	2641.5	660.9	649.9	641.0	506.2	512.8	515.0	506.2	488.5	504.0
60°	8315.6	2752.0	718.4	720.6	722.8	550.4	561.4	574.7	572.5	565.9	570.3
62.5°	8804.1	2701.1	782.5	817.9	806.8	641.0	638.8	647.7	647.7	658.7	665.3
65°	8731.2	2513.2	815.6	904.1	846.6	707.3	707.3	711.8	714.0	736.1	738.3
67°	8293.5	2177.3	798.0	917.3	846.6	733.9	733.9	738.3	722.8	780.3	762.6
67.5°	8090.1	2077.8	782.5	906.3	840.0	731.6	731.6	733.9	720.6	775.9	758.2
70°	7035.8	1542.9	674.2	802.4	778.1	711.8	711.8	698.5	687.4	760.4	744.9
72.5°	6005.7	1120.7	541.6	683.0	702.9	685.2	689.7	656.5	625.5	676.4	663.1
75°	4599.9	824.5	422.2	526.1	594.6	641.0	669.8	585.8	546.0	559.2	534.9
77.5°	2566.3	537.1	333.8	389.0	453.1	596.8	643.2	528.3	446.5	431.0	431.0
80°	870.9	313.9	245.4	289.6	311.7	528.3	601.2	428.8	351.5	336.0	324.9
82.5°	329.4	192.3	168.0	198.9	198.9	417.8	490.7	329.4	265.3	342.6	349.2
85°	150.3	114.9	110.5	114.9	114.9	256.4	347.0	214.4	238.7	205.6	181.3
87.5°	59.7	55.3	50.8	48.6	39.8	44.2	119.4	57.5	108.3	28.7	26.5
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)