

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: P480644

Luminaire Tested: **IFLD-L-SA8B-827-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480644
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

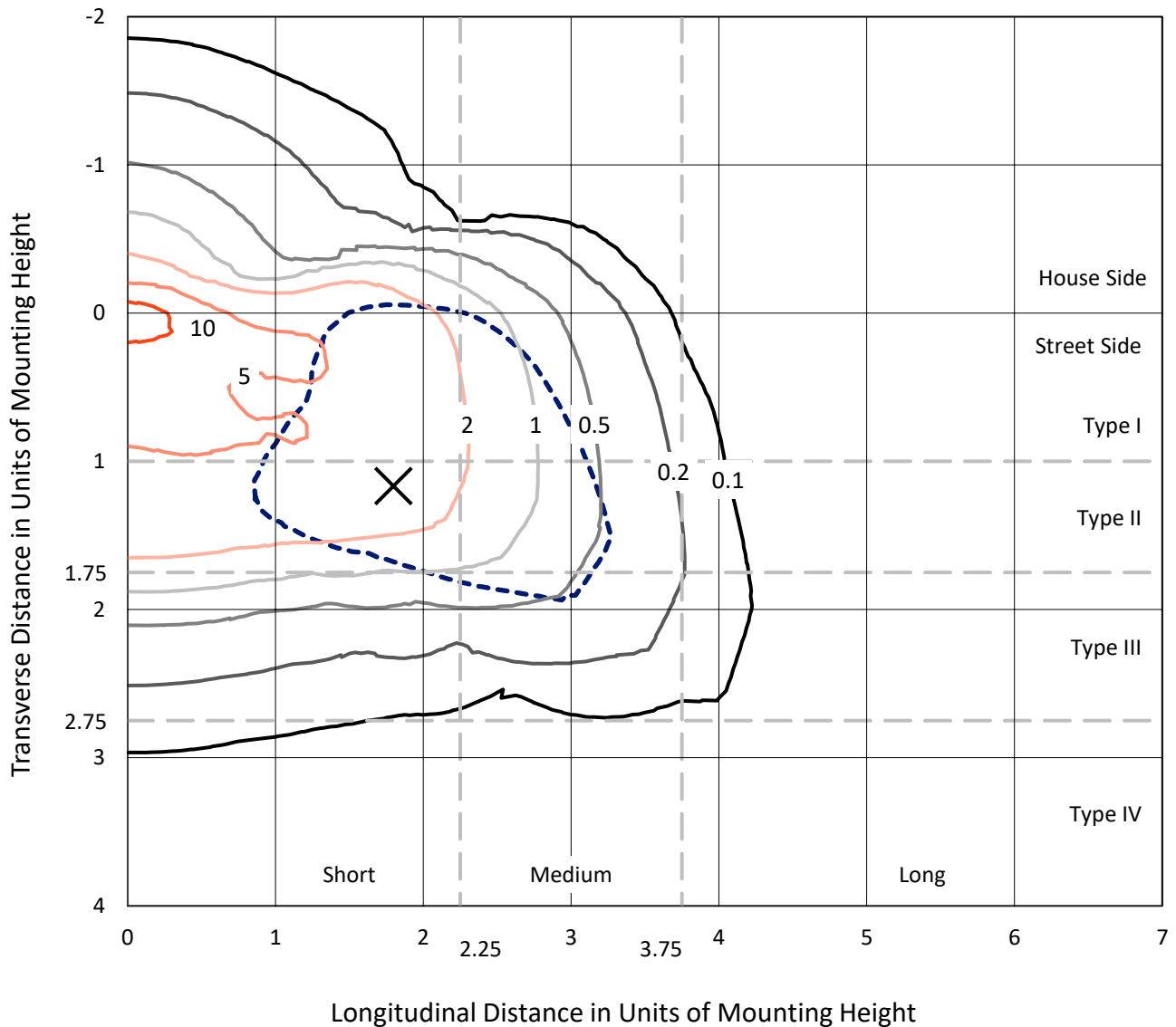
Lumens per Lamp: N/A
Luminaire Lumens: 29520.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

REPORT NUMBER: P480644
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

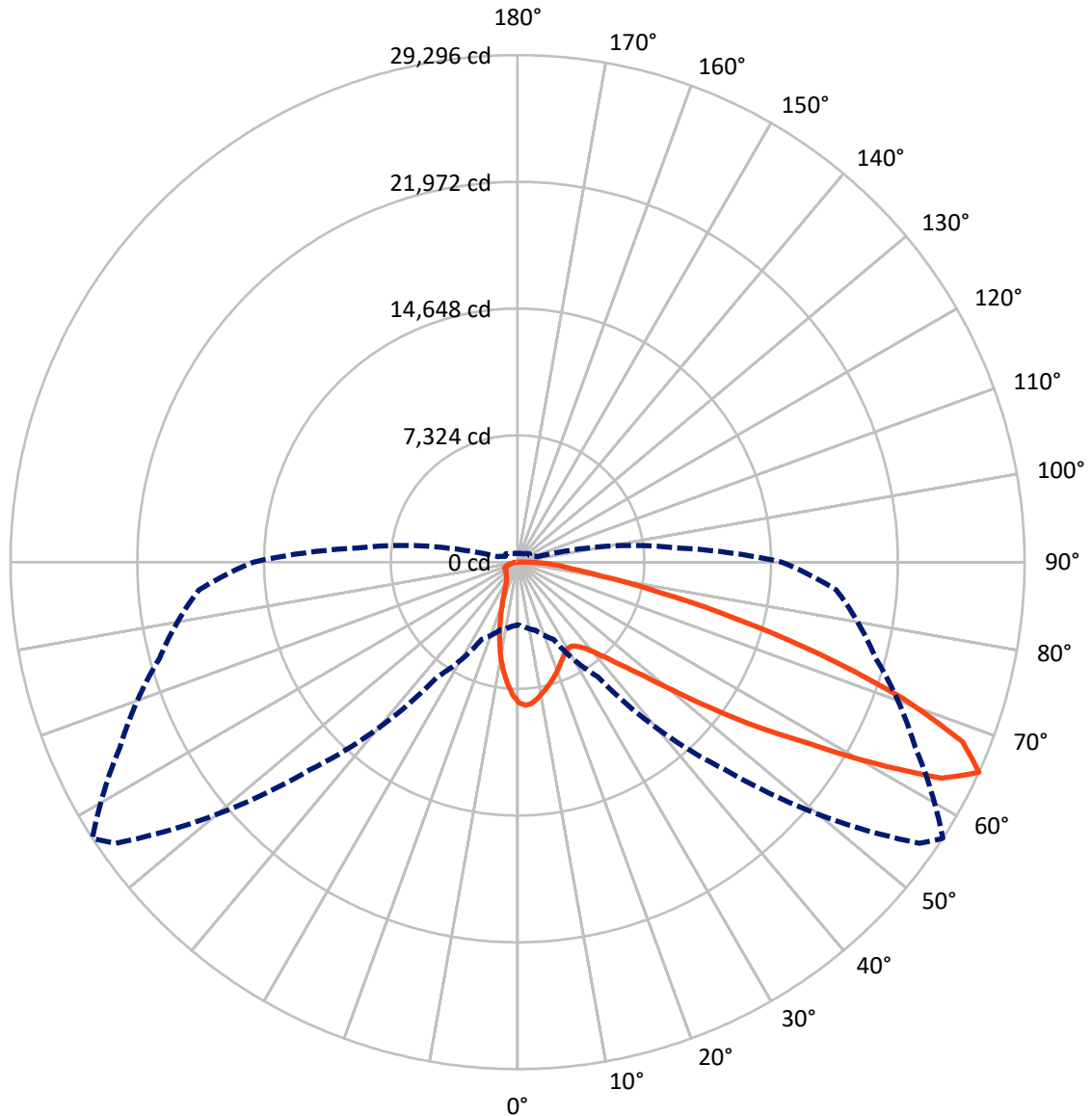
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

REPORT NUMBER: P480644
CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P480644
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4527.2	0.0	4527.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24993.2	0.0	24993.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	29520.5	0.0	29520.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.8	2.3
10°-20°	1463.0	5.0
20°-30°	1891.6	6.4
30°-40°	2545.4	8.6
40°-50°	4058.8	13.7
50°-60°	7168.8	24.3
60°-70°	7886.7	26.7
70°-80°	3299.1	11.2
80°-90°	527.3	1.8
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°	29520.5	100.0
0°-180°	29520.5	100.0

Coefficient of Utilization



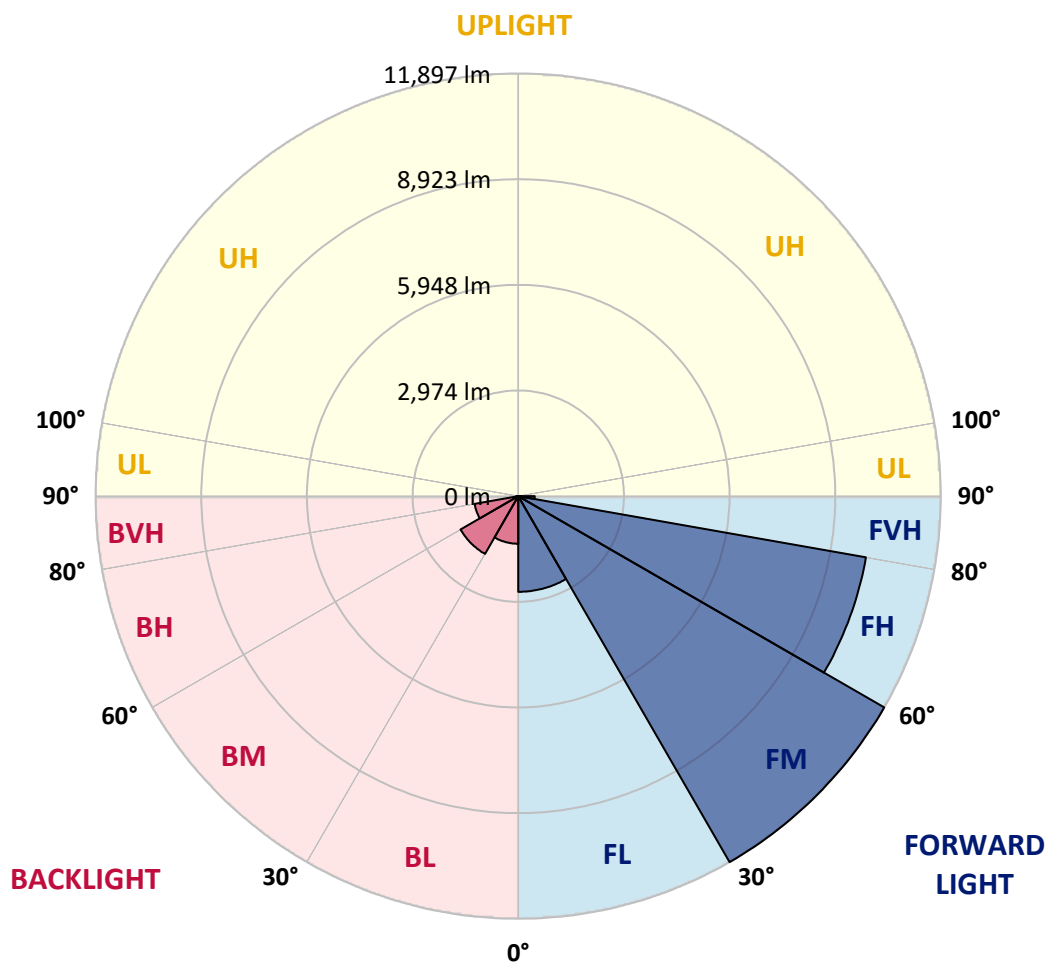
REPORT NUMBER: P480644
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.6	9.1			
FM (30°-60°)	11896.7	40.3			
FH (60°-80°)	9937.5	33.7			G4/12000
FVH (80°-90°)	465.4	1.6			G3/500
BL (0°-30°)	1340.8	4.5	B3/2500		
BM (30°-60°)	1876.3	6.4	B2/2500		
BH (60°-80°)	1248.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	61.9	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-G4

Type III Short





REPORT NUMBER: P480644

CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7
2.5°	8336.9	8350.2	8350.2	8376.8	8287.1	8330.3	8323.6	8283.8	8297.1	8227.3	8157.6
5°	8101.1	8091.1	8144.3	8150.9	8220.7	8240.6	8257.2	8230.6	8237.3	8084.5	8018.1
7.5°	7496.6	7493.3	7583.0	7659.3	7805.5	7941.7	8031.4	8004.8	8041.3	7945.0	7788.9
10°	6779.2	6855.5	6948.5	7024.9	7294.0	7466.7	7699.2	7722.5	7862.0	7838.7	7556.4
12.5°	6241.1	6274.3	6344.0	6563.3	6809.0	7094.7	7426.8	7456.7	7592.9	7659.3	7413.6
15°	5799.3	5829.2	5918.9	6081.6	6357.3	6696.1	7117.9	7194.3	7466.7	7490.0	7227.6
17.5°	5477.1	5500.4	5560.2	5722.9	5948.8	6383.9	6782.5	6918.7	7277.4	7390.3	7034.9
20°	5350.9	5301.1	5334.3	5437.3	5663.1	5998.6	6513.4	6633.0	7091.4	7313.9	6852.2
22.5°	5294.4	5251.3	5271.2	5264.6	5443.9	5683.1	6224.5	6350.7	6915.3	7224.2	6689.5
25°	5337.6	5337.6	5317.7	5301.1	5321.0	5477.1	5912.2	6108.2	6679.5	7147.8	6523.4
27.5°	5570.1	5480.5	5490.4	5420.7	5400.7	5400.7	5772.7	5889.0	6603.1	7104.7	6387.2
30°	5719.6	5762.8	5766.1	5663.1	5560.2	5374.2	5643.2	5756.1	6540.0	7157.8	6307.5
32.5°	6101.6	6081.6	6025.2	6005.2	5852.5	5643.2	5706.3	5782.7	6503.5	7277.4	6330.8
35°	6483.5	6473.6	6476.9	6466.9	6307.5	5998.6	5875.7	5978.7	6569.9	7486.6	6410.5
37.5°	6878.8	6905.4	7018.3	7018.3	6848.9	6513.4	6350.7	6320.8	6812.4	7828.7	6599.8
40°	7274.1	7340.5	7483.3	7709.2	7470.0	7157.8	6895.4	6848.9	7104.7	8287.1	7054.8
42.5°	7652.7	7762.3	8044.6	8380.1	8300.4	7988.2	7639.4	7586.3	7705.8	8968.0	7689.2
45°	8137.6	8230.6	8675.7	9190.6	9300.2	9024.5	8615.9	8572.8	8566.1	9964.5	8562.8
47.5°	8875.0	8974.7	9419.7	9937.9	10276.7	10319.9	9861.5	9815.0	9655.6	11309.7	9841.6
50°	9798.4	9961.1	10336.5	10941.0	11432.6	11894.2	11764.7	11628.5	11316.3	12874.1	11462.4
52.5°	10472.6	10671.9	11180.1	11954.0	12820.9	13555.0	14020.0	14020.0	13302.6	14591.3	13412.2
55°	10652.0	10771.6	11412.6	12532.0	14016.7	15873.4	16846.6	16773.5	15667.4	16398.2	15680.7
57.5°	9937.9	10094.0	10871.2	12043.7	14644.4	18042.3	19653.2	19669.8	18251.6	18497.4	17919.4
60°	7971.6	8021.4	8938.1	10505.9	14039.9	19789.4	23486.2	23549.3	21191.1	20367.4	19058.7
62.5°	5510.3	5669.8	6360.6	7735.7	11631.8	19593.4	27183.0	27495.3	23546.0	21353.8	19238.0
65°	3627.1	3723.4	4092.1	4929.1	8097.8	16982.8	28332.3	29295.5	25346.3	21410.3	18487.4
67.5°	2630.6	2647.2	2756.8	3188.6	4866.0	12213.1	26369.3	27727.8	26020.5	20938.6	16727.0
70°	2125.8	2139.0	2178.9	2454.6	3142.1	7642.7	21506.6	23635.7	23997.7	18703.3	13471.9
72.5°	1727.2	1743.8	1793.6	2052.7	2590.8	4251.5	15727.2	18321.3	19520.4	13837.3	8954.7
75°	1358.5	1371.8	1491.3	1747.1	2434.6	2919.6	10432.8	12973.7	13136.5	8087.8	4191.7
77.5°	930.0	953.3	1099.4	1481.4	2291.8	2554.2	6503.5	8310.4	7456.7	3165.4	1441.5
80°	591.2	624.4	710.8	1122.7	2026.1	2438.0	4045.6	4962.3	3265.0	1082.8	694.2
82.5°	348.8	382.0	468.3	727.4	1591.0	2261.9	2849.8	3105.6	1531.2	554.7	418.5
85°	192.6	215.9	282.3	438.4	933.3	2009.5	2281.9	2228.7	876.9	295.6	262.4
87.5°	63.1	73.1	103.0	176.0	385.3	946.6	1368.5	1285.4	455.0	136.2	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480644
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7
2.5°	8111.1	8101.1	7951.6	7838.7	7646.1	7486.6	7423.5	7337.2	7333.8	7270.7	7254.1
5°	7915.1	7812.1	7583.0	7363.7	7021.6	6792.4	6583.2	6437.0	6377.3	6247.7	6217.8
7.5°	7662.7	7526.5	7174.4	6762.5	6360.6	6001.9	5676.4	5350.9	5168.2	5105.1	5035.4
10°	7400.3	7161.1	6639.7	6178.0	5616.6	5065.3	4553.8	4095.4	3846.3	3670.2	3593.8
12.5°	7191.0	6872.2	6207.9	5517.0	4776.3	4038.9	3444.4	2962.8	2680.4	2547.6	2487.8
15°	6955.2	6533.4	5736.2	4862.7	3939.3	3102.3	2521.0	2142.4	2029.4	1966.3	1956.4
17.5°	6706.1	6217.8	5224.7	4218.3	3122.2	2335.0	1959.7	1806.9	1757.1	1730.5	1717.2
20°	6473.6	5935.5	4699.9	3500.8	2444.6	1873.3	1697.3	1617.6	1614.2	1627.5	1624.2
22.5°	6144.7	5566.8	4181.8	2836.5	1953.0	1630.8	1517.9	1498.0	1517.9	1534.5	1541.2
25°	5958.7	5264.6	3603.8	2252.0	1614.2	1448.2	1411.6	1405.0	1434.9	1454.8	1451.5
27.5°	5766.1	4952.3	3065.7	1803.6	1415.0	1318.6	1312.0	1318.6	1348.5	1378.4	1375.1
30°	5616.6	4703.2	2560.9	1508.0	1262.2	1225.6	1219.0	1225.6	1242.2	1245.6	1245.6
32.5°	5493.7	4407.6	2132.4	1308.7	1169.2	1139.3	1145.9	1142.6	1145.9	1149.2	1152.6
35°	5420.7	4231.6	1780.3	1185.8	1092.8	1069.5	1066.2	1056.2	1059.6	1062.9	1059.6
37.5°	5576.8	4145.2	1501.3	1099.4	1039.6	1019.7	1013.1	1006.4	996.4	996.4	996.4
40°	5812.6	4098.7	1331.9	1042.9	999.8	976.5	956.6	949.9	949.9	953.3	956.6
42.5°	6280.9	4175.1	1215.7	999.8	949.9	923.4	903.4	906.8	916.7	926.7	920.1
45°	6958.5	4407.6	1162.5	966.6	920.1	883.5	870.2	866.9	876.9	893.5	906.8
47.5°	7845.3	4769.7	1142.6	936.7	900.1	850.3	833.7	843.7	856.9	880.2	870.2
50°	9296.8	5583.4	1159.2	910.1	870.2	833.7	813.8	803.8	813.8	830.4	837.0
52.5°	11193.4	7061.5	1222.3	896.8	850.3	820.4	787.2	770.6	780.5	793.8	793.8
55°	13462.0	9080.9	1398.3	880.2	817.1	800.5	763.9	730.7	737.4	737.4	734.0
57.5°	15461.5	10605.5	1607.6	856.9	797.2	773.9	727.4	687.5	680.9	684.2	687.5
60°	16358.3	11010.7	1707.2	850.3	797.2	740.7	677.6	637.7	627.8	621.1	621.1
62.5°	16202.2	10309.9	1504.6	820.4	817.1	714.1	631.1	587.9	574.6	561.3	564.7
65°	15258.9	9310.1	1185.8	780.5	820.4	697.5	584.6	541.4	518.2	501.5	498.2
67.5°	13535.1	7948.3	940.0	750.7	787.2	667.6	544.7	494.9	475.0	458.4	451.7
70°	10588.9	6231.1	817.1	710.8	707.5	594.5	498.2	455.0	425.2	405.2	405.2
72.5°	6865.5	3939.3	700.8	631.1	611.2	498.2	431.8	405.2	382.0	365.4	365.4
75°	3108.9	1830.1	564.7	528.1	498.2	398.6	365.4	352.1	332.1	315.5	315.5
77.5°	1116.0	780.5	421.8	415.2	372.0	308.9	295.6	285.6	272.4	255.8	255.8
80°	624.4	494.9	315.5	302.3	259.1	229.2	212.6	212.6	205.9	196.0	192.6
82.5°	395.3	322.2	232.5	202.6	169.4	152.8	146.1	142.8	139.5	126.2	122.9
85°	249.1	219.2	152.8	119.6	99.6	76.4	73.1	69.8	63.1	56.5	56.5
87.5°	112.9	126.2	59.8	36.5	26.6	16.6	10.0	3.3	0.0	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)