

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: P480241

Luminaire Tested: **IFLD-S-SA6D-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480241
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

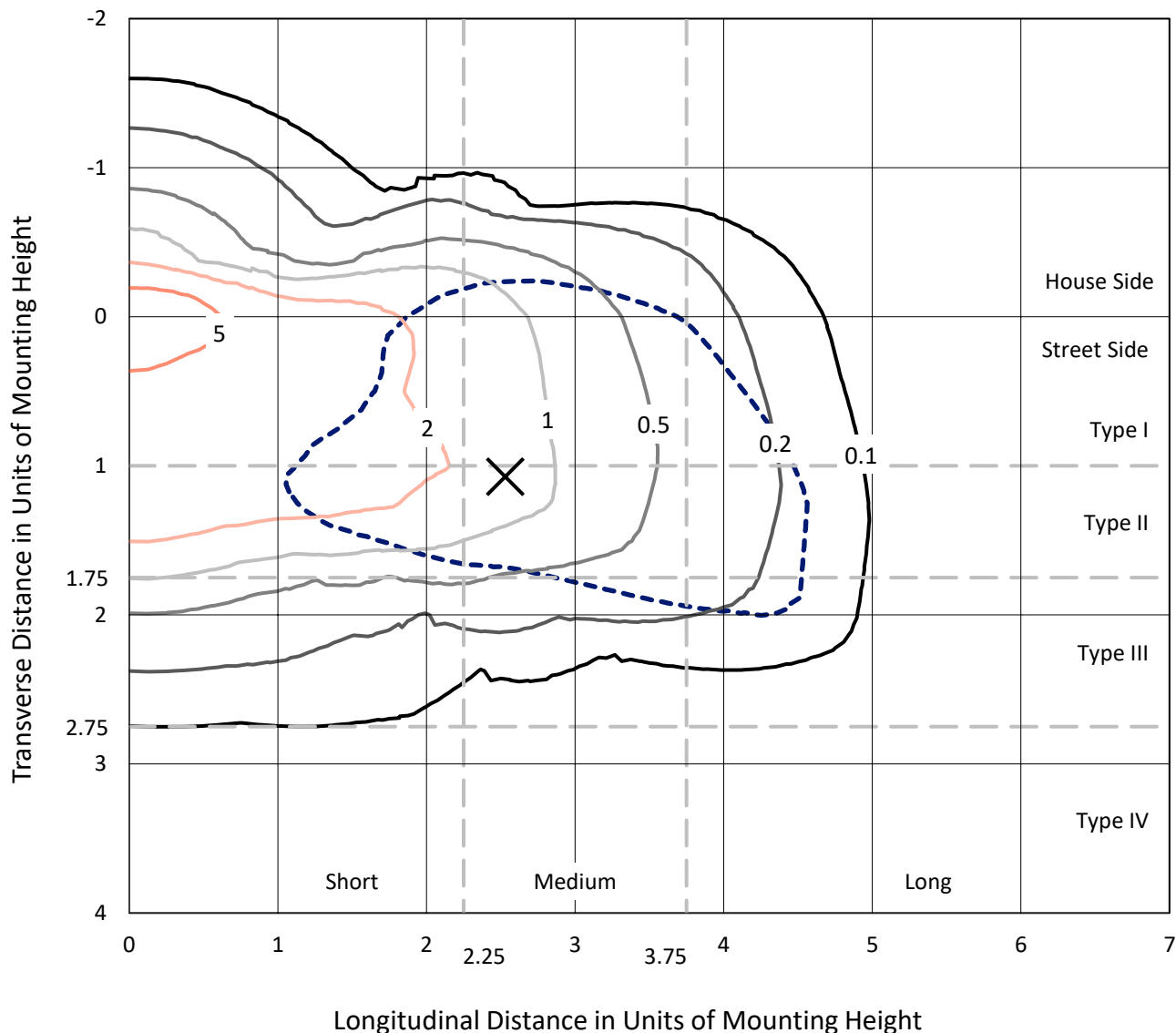
Lumens per Lamp: N/A
Luminaire Lumens: 33511.2 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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: P480241
 CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

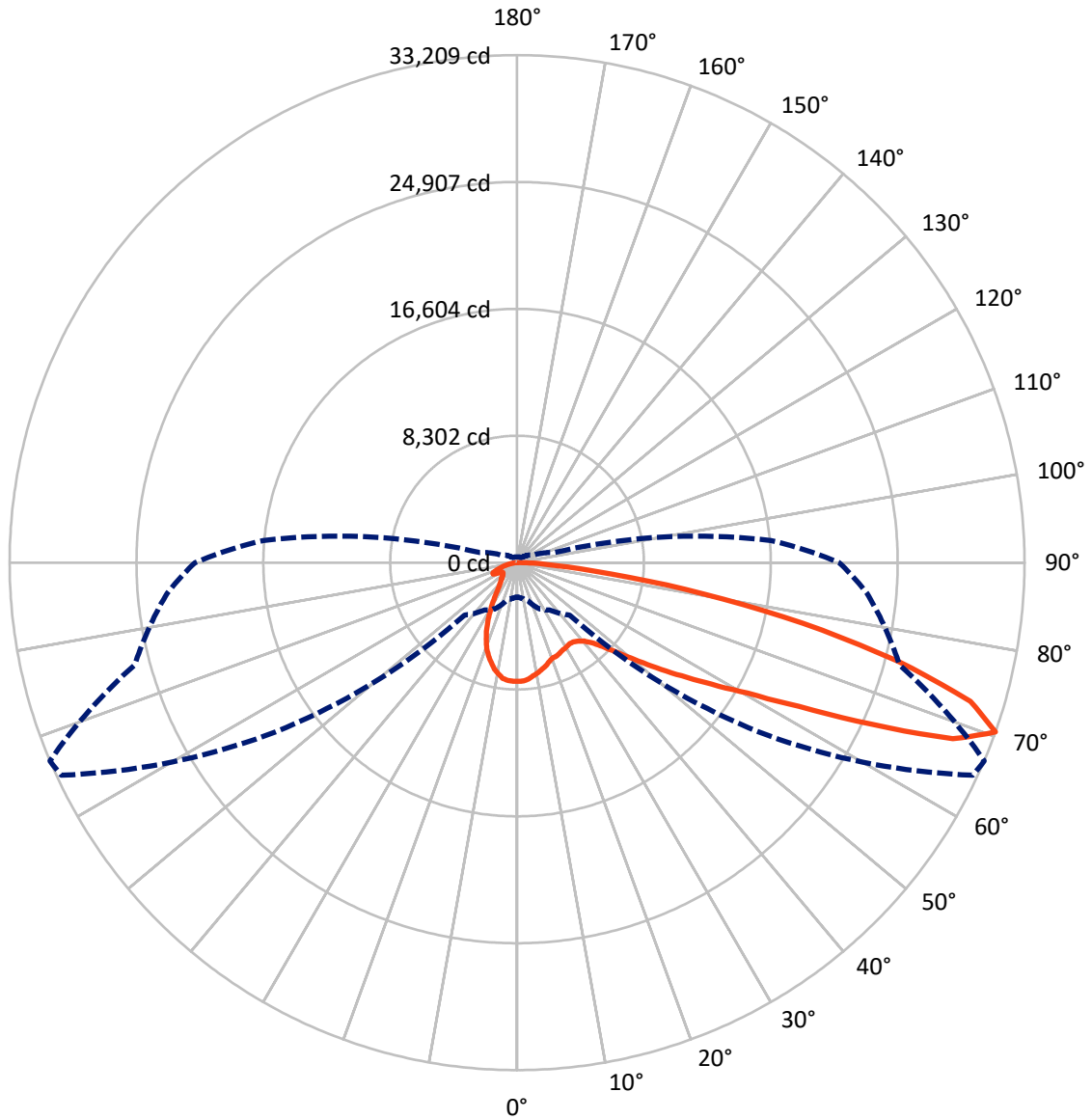
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P480241
CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480241
 CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6526.6	0.0	6526.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26984.6	0.0	26984.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	33511.2	0.0	33511.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.9	2.0
10°-20°	1621.1	4.8
20°-30°	2189.2	6.5
30°-40°	2929.3	8.7
40°-50°	4307.5	12.9
50°-60°	6714.3	20.0
60°-70°	8270.9	24.7
70°-80°	5844.2	17.4
80°-90°	957.9	2.9
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°	33511.2	100.0
0°-180°	33511.2	100.0

Coefficient of Utilization

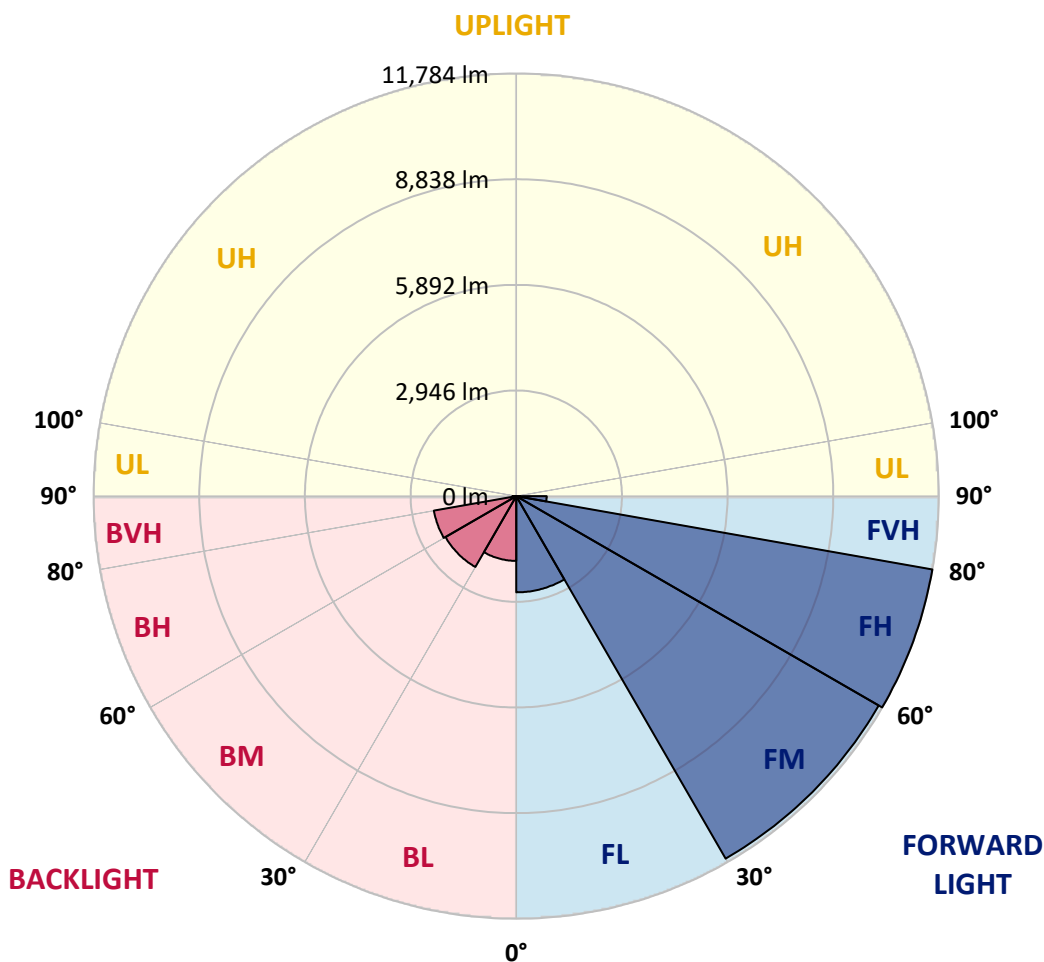


REPORT NUMBER: P480241
 CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2682.3	8.0			
FM (30°-60°)	11671.2	34.8			
FH (60°-80°)	11783.7	35.2			G4/12000
FVH (80°-90°)	847.4	2.5			G5
BL (0°-30°)	1804.8	5.4	B3/2500		
BM (30°-60°)	2279.9	6.8	B2/2500		
BH (60°-80°)	2331.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	110.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P480241

CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7
2.5°	7223.5	7305.1	7334.8	7379.3	7494.3	7579.7	7631.6	7691.0	7761.5	7820.8	7857.9
5°	6718.9	6763.4	6833.9	6882.2	7026.9	7256.9	7412.7	7665.0	7657.6	7750.3	7891.3
7.5°	6229.2	6273.7	6307.1	6403.6	6611.3	6819.1	7104.8	7512.9	7483.2	7698.4	7917.3
10°	5925.0	5891.6	5902.7	6066.0	6229.2	6462.9	6822.8	7238.3	7345.9	7679.8	7991.5
12.5°	5639.3	5602.2	5691.2	5795.1	5995.5	6206.9	6637.3	7012.0	7175.3	7613.1	8024.9
15°	5461.2	5435.2	5546.5	5591.1	5828.5	6080.8	6385.0	6841.4	7019.4	7531.4	7972.9
17.5°	5361.0	5383.3	5424.1	5520.6	5672.7	5887.9	6221.8	6726.3	6804.3	7431.3	7961.8
20°	5379.6	5405.6	5409.3	5450.1	5554.0	5720.9	6062.2	6603.9	6655.9	7412.7	7991.5
22.5°	5528.0	5490.9	5505.7	5479.8	5509.4	5639.3	5939.8	6440.7	6641.0	7256.9	7928.4
25°	5750.6	5698.7	5691.2	5602.2	5546.5	5583.6	5917.6	6399.9	6529.7	7208.7	7924.7
27.5°	6143.9	6066.0	6066.0	5932.4	5706.1	5646.7	5854.5	6333.1	6448.1	7164.1	7839.4
30°	6522.3	6522.3	6526.0	6336.8	6084.5	5791.4	5880.5	6307.1	6381.3	7030.6	7724.4
32.5°	6982.3	6971.2	6952.7	6859.9	6470.4	6032.6	6006.6	6273.7	6310.8	6986.1	7691.0
35°	7431.3	7401.6	7546.3	7464.7	7067.7	6503.7	6136.4	6288.6	6370.2	6919.3	7587.1
37.5°	7768.9	7787.4	8087.9	8139.9	7798.6	7038.0	6503.7	6437.0	6514.9	7015.7	7587.1
40°	8206.7	8280.9	8562.8	8737.2	8529.4	7742.9	7086.2	6685.5	6741.2	7230.9	7750.3
42.5°	8781.7	8844.8	9204.7	9431.0	9371.6	8640.7	7661.3	7204.9	7160.4	7590.8	7995.2
45°	9542.3	9553.4	9917.0	10228.6	10351.1	9579.4	8574.0	7861.6	7824.5	8210.4	8444.1
47.5°	10447.5	10436.4	10662.7	10996.6	11326.8	10699.8	9623.9	8859.6	8726.1	9097.1	9189.8
50°	11323.1	11274.9	11326.8	11753.5	12387.9	12102.2	10900.2	10080.2	9946.7	10150.7	10310.3
52.5°	11805.4	11864.8	11723.8	12287.7	13515.8	13760.6	12592.0	11538.3	11423.3	11523.5	11801.7
55°	11467.8	11590.2	11497.5	12031.7	14009.2	15782.6	14780.9	13226.4	13078.0	13040.9	13497.2
57.5°	10032.0	10254.6	10273.2	11119.1	13838.5	17348.3	17860.3	15218.7	14996.1	14617.7	15088.8
60°	7702.1	7924.7	8095.4	9097.1	12376.8	18283.2	21429.3	18053.2	17318.6	16339.1	16621.1
62.5°	5398.1	5550.3	5720.9	6336.8	9542.3	17734.1	24516.1	22045.2	20691.0	18153.3	18505.8
65°	3932.7	4051.4	4225.8	4589.4	5861.9	14673.3	25948.2	26786.7	25503.0	20461.0	20416.5
67.5°	2960.6	3034.8	3264.9	3847.3	4062.5	9063.7	24464.2	31795.3	30756.4	23024.7	21952.5
70°	2240.9	2304.0	2519.1	3316.8	3795.4	4860.2	19299.8	32912.0	33208.8	25900.0	22983.9
72.5°	1543.4	1613.9	1855.0	2764.0	3613.6	3854.8	12113.4	29899.4	31023.6	27083.5	21878.3
75°	946.1	994.3	1135.3	2096.2	3587.6	3769.4	6667.0	24501.3	25692.2	25024.4	19140.2
77.5°	667.8	664.1	690.1	1228.0	3109.0	3791.7	4110.8	17953.0	19110.5	18442.7	12988.9
80°	486.0	489.7	515.7	734.6	2111.0	3854.8	3238.9	12024.3	12369.4	9616.5	5123.6
82.5°	293.1	307.9	371.0	497.1	1268.8	3480.0	2994.0	6681.8	6251.5	3086.8	1409.8
85°	155.8	155.8	218.9	315.4	675.2	2597.0	2882.7	3179.5	2663.8	957.2	523.1
87.5°	37.1	37.1	63.1	126.1	270.8	1242.9	1966.3	1265.1	1012.8	322.8	215.2
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: P480241

CATALOG NUMBER: IFLD-S-SA6D-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7	7757.7
2.5°	7843.1	7798.6	7854.2	7742.9	7653.9	7657.6	7520.3	7512.9	7494.3	7397.9	7431.3
5°	7932.1	7895.0	7831.9	7709.5	7512.9	7316.2	7197.5	7045.4	6982.3	6949.0	6963.8
7.5°	8017.4	7950.7	7768.9	7598.2	7294.0	6923.0	6707.8	6503.7	6244.0	6214.4	6162.4
10°	8039.7	7898.7	7665.0	7301.4	6897.0	6485.2	5995.5	5617.0	5416.7	5260.9	5201.5
12.5°	8006.3	7947.0	7498.0	7030.6	6418.4	5772.9	5201.5	4667.3	4296.3	4103.3	4051.4
15°	8002.6	7898.7	7312.5	6618.8	5835.9	4993.7	4181.2	3539.4	3149.8	2990.3	2990.3
17.5°	8006.3	7757.7	7093.6	6203.2	5149.6	4010.6	3116.5	2589.6	2374.4	2352.2	2370.7
20°	7932.1	7653.9	6863.6	5713.5	4288.8	3012.6	2263.1	2048.0	2048.0	2077.6	2088.8
22.5°	7865.3	7498.0	6500.0	5108.8	3413.3	2181.5	1840.2	1777.1	1847.6	1899.6	1921.8
25°	7772.6	7368.2	6129.0	4481.8	2597.0	1758.6	1599.0	1613.9	1680.7	1773.4	1766.0
27.5°	7639.0	7141.9	5687.5	3754.6	1932.9	1517.4	1476.6	1484.0	1554.5	1595.3	1587.9
30°	7486.9	6911.9	5279.4	3031.1	1532.3	1391.3	1387.6	1406.1	1417.2	1439.5	1435.8
32.5°	7294.0	6607.6	4845.3	2355.9	1380.1	1320.8	1305.9	1294.8	1305.9	1302.2	1291.1
35°	7156.7	6444.4	4403.8	1795.7	1294.8	1257.7	1246.6	1228.0	1213.2	1190.9	1187.2
37.5°	7119.6	6281.1	3940.1	1465.5	1228.0	1209.5	1172.4	1139.0	1120.4	1109.3	1101.9
40°	7097.4	6173.5	3487.5	1287.4	1172.4	1153.8	1109.3	1064.8	1046.2	1035.1	1038.8
42.5°	7175.3	6114.2	3027.4	1198.4	1124.1	1090.8	1042.5	990.6	986.9	979.5	990.6
45°	7449.8	6188.4	2600.8	1135.3	1075.9	1020.3	957.2	931.2	927.5	920.1	927.5
47.5°	8073.1	6373.9	2237.2	1094.5	1024.0	975.7	909.0	871.9	868.2	864.4	864.4
50°	8933.8	6945.2	1932.9	1046.2	990.6	923.8	860.7	819.9	812.5	797.7	797.7
52.5°	10284.3	7906.1	1751.2	1020.3	931.2	875.6	808.8	764.3	745.7	730.9	730.9
55°	11805.4	9097.1	1717.8	975.7	868.2	816.2	756.9	712.3	693.8	675.2	667.8
57.5°	13538.0	10673.9	1955.2	946.1	823.6	756.9	690.1	649.3	634.4	615.9	608.5
60°	15151.9	12246.9	2693.5	901.5	782.8	701.2	634.4	593.6	575.1	556.5	556.5
62.5°	17018.1	14194.7	3943.8	901.5	745.7	641.8	575.1	545.4	534.2	515.7	512.0
65°	19225.6	16209.3	4856.5	957.2	734.6	589.9	519.4	489.7	478.6	467.5	463.8
67.5°	20906.2	17366.8	4177.5	1105.6	782.8	545.4	463.8	445.2	437.8	426.7	419.2
70°	21084.3	16661.9	2519.1	1194.6	831.1	500.9	415.5	397.0	397.0	385.8	378.4
72.5°	19485.3	14784.6	1695.5	1064.8	753.1	448.9	367.3	352.5	345.0	337.6	333.9
75°	16305.7	12540.0	1339.3	849.6	578.8	371.0	319.1	304.2	293.1	289.4	282.0
77.5°	10952.1	8151.0	990.6	664.1	426.7	300.5	267.1	252.3	241.2	237.4	226.3
80°	4207.2	3105.3	638.1	482.3	300.5	237.4	211.5	196.6	189.2	178.1	170.7
82.5°	1239.2	1005.4	356.2	296.8	192.9	163.2	152.1	141.0	129.9	118.7	115.0
85°	512.0	460.0	218.9	155.8	118.7	96.5	89.0	77.9	66.8	59.4	51.9
87.5°	237.4	196.6	100.2	59.4	40.8	22.3	11.1	3.7	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)