

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: P319778

Luminaire Tested: **GAN-SA4D-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319778
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-SA4D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 31301 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 258
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

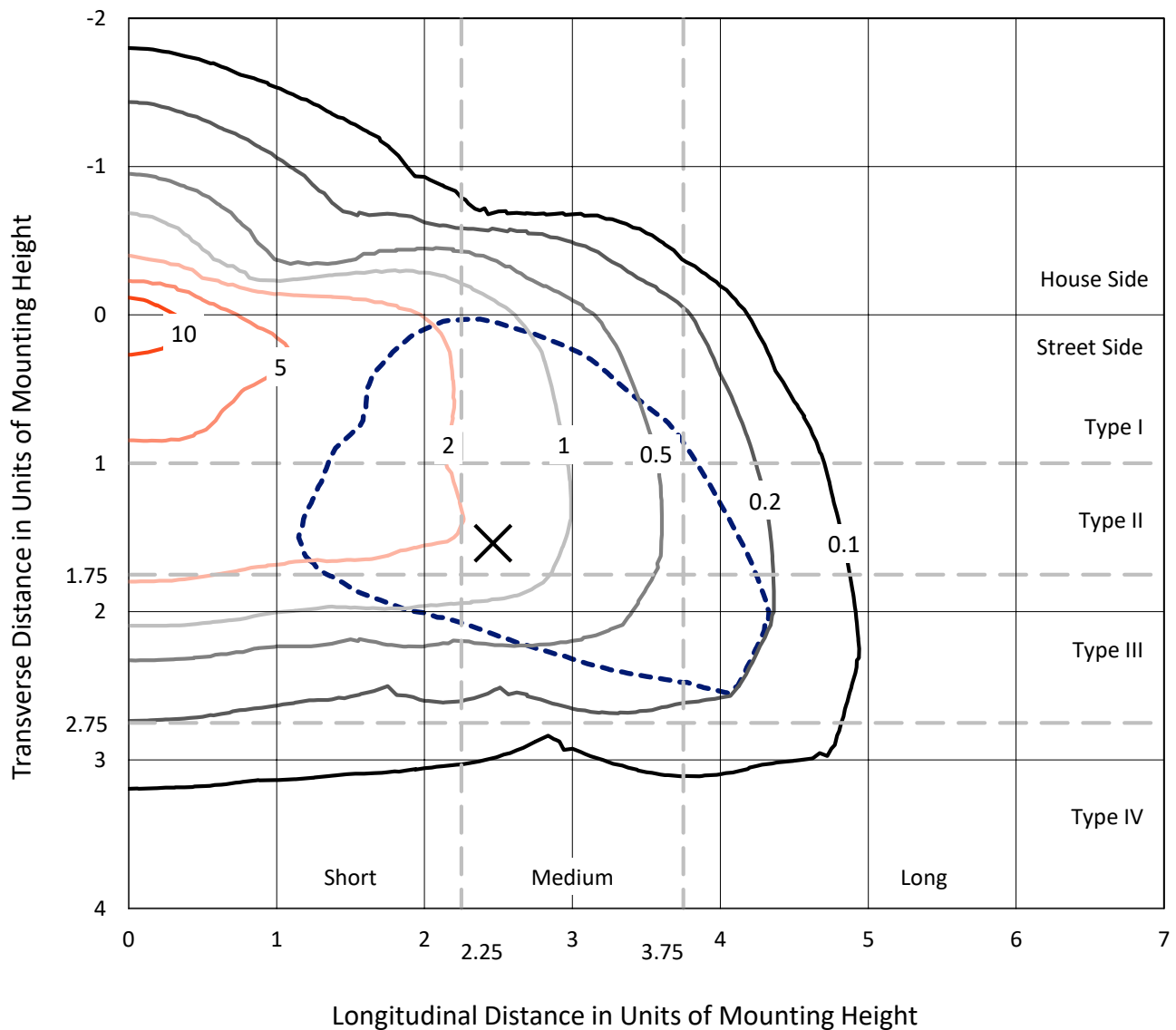


REPORT NUMBER: P319778

CATALOG NUMBER: GAN-SA4D-760-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

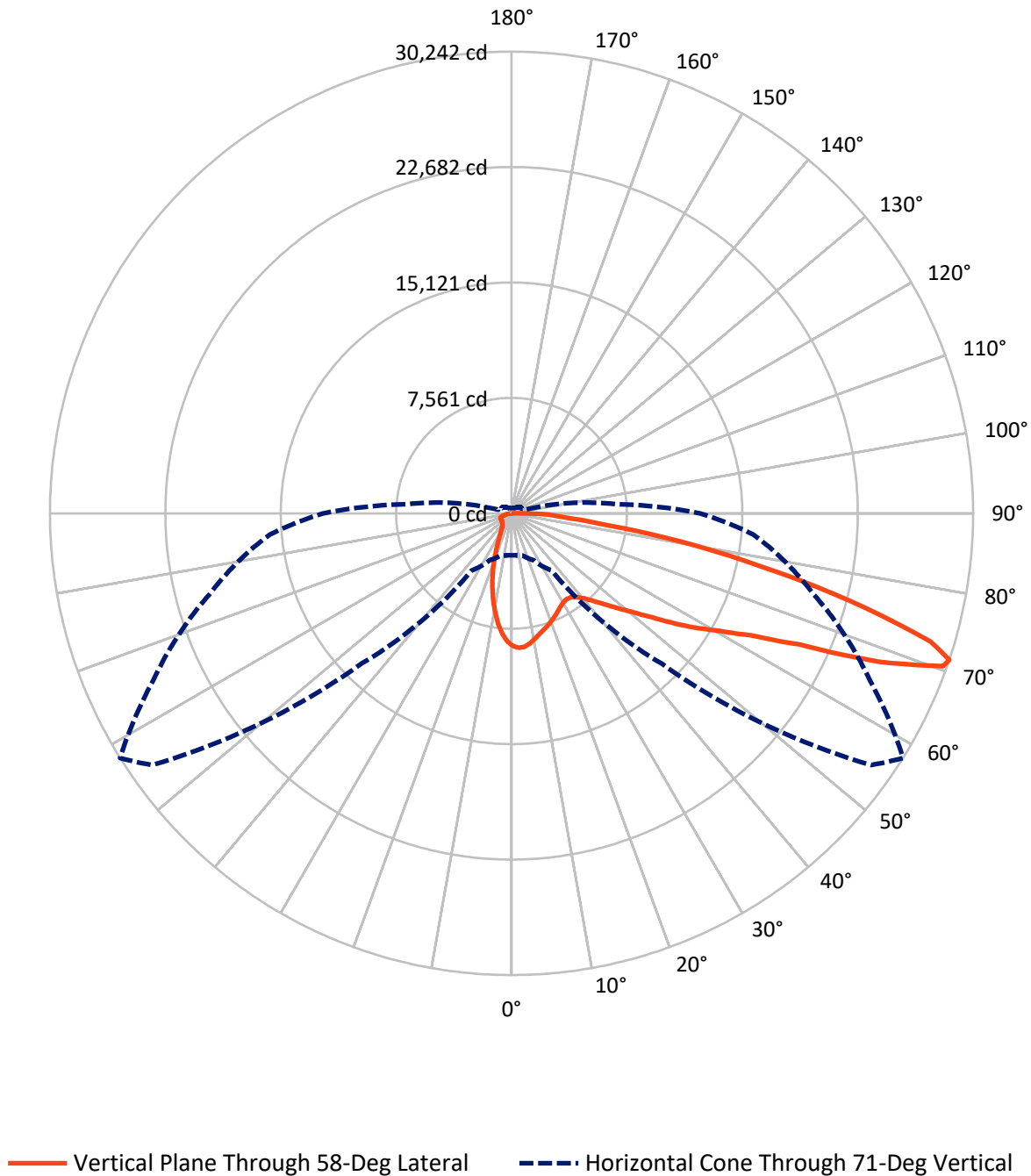
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P319778
CATALOG NUMBER: GAN-SA4D-760-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319778

CATALOG NUMBER: GAN-SA4D-760-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4679.7	0.0	4679.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26621.3	0.0	26621.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	31301.0	0.0	31301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.2	2.4
10°-20°	1663.7	5.3
20°-30°	2114.3	6.8
30°-40°	2693.2	8.6
40°-50°	3819.1	12.2
50°-60°	5910.3	18.9
60°-70°	8046.1	25.7
70°-80°	5367.7	17.1
80°-90°	938.5	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°	31301.0	100.0
0°-180°	31301.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319778

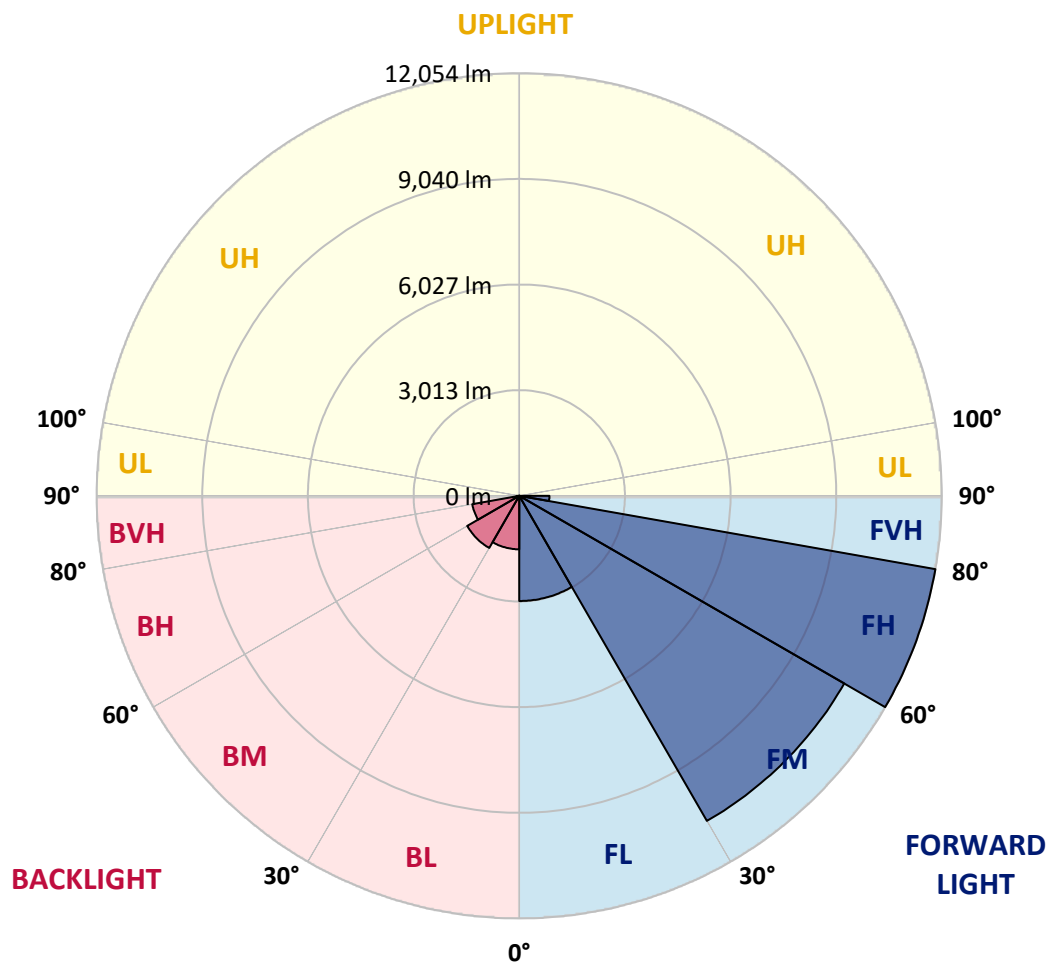
CATALOG NUMBER: GAN-SA4D-760-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3000.7	9.6			
FM	(30°-60°)	10706.5	34.2			
FH	(60°-80°)	12053.6	38.5			G5
FVH	(80°-90°)	860.5	2.7			G5
BL	(0°-30°)	1525.5	4.9	B3/2500		
BM	(30°-60°)	1716.2	5.5	B2/2500		
BH	(60°-80°)	1360.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	78.0	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 III Medium



REPORT NUMBER: P319778

CATALOG NUMBER: GAN-SA4D-760-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5
2.5°	8902.5	8890.5	8894.9	8886.2	8865.5	8844.7	8814.2	8819.7	8777.1	8713.9	8635.4
5°	8734.6	8730.3	8763.0	8781.5	8796.8	8784.8	8776.1	8787.0	8724.8	8637.6	8501.3
7.5°	8382.4	8334.5	8375.9	8438.0	8496.9	8541.6	8600.5	8608.1	8568.9	8477.3	8298.5
10°	7882.0	7836.2	7897.2	7994.3	8112.0	8218.9	8337.7	8359.5	8367.2	8284.3	8067.3
12.5°	7363.0	7328.1	7389.2	7525.4	7720.6	7885.3	8075.0	8107.7	8175.3	8119.7	7853.6
15°	6898.5	6885.4	6959.6	7093.7	7318.3	7570.1	7843.8	7903.8	8018.3	7999.7	7686.8
17.5°	6497.3	6494.0	6550.7	6691.3	6939.9	7258.3	7613.8	7715.2	7885.3	7907.1	7549.4
20°	6198.5	6192.0	6231.2	6334.8	6591.0	6951.9	7365.2	7504.7	7750.1	7826.4	7407.7
22.5°	6038.2	6037.1	6038.2	6087.3	6296.6	6632.5	7123.1	7293.2	7618.1	7762.0	7250.7
25°	6011.0	6007.7	5983.7	5978.3	6097.1	6365.3	6883.2	7070.8	7492.7	7717.3	7101.3
27.5°	6081.8	6086.2	6054.6	6003.3	6027.3	6189.8	6675.0	6875.6	7392.4	7708.6	6997.7
30°	6229.0	6226.9	6199.6	6146.2	6099.3	6124.4	6526.7	6727.3	7324.8	7746.8	6926.9
32.5°	6391.5	6403.5	6398.0	6368.6	6298.8	6198.5	6482.0	6678.3	7305.2	7838.4	6896.3
35°	6586.7	6599.8	6639.0	6661.9	6580.1	6418.8	6577.9	6748.0	7361.9	8010.6	6945.4
37.5°	6772.0	6805.8	6916.0	7013.0	6943.2	6763.3	6833.1	6954.1	7537.4	8282.1	7077.3
40°	6985.7	7015.2	7195.1	7401.1	7390.2	7203.8	7244.1	7324.8	7847.1	8671.4	7316.1
42.5°	7196.2	7255.0	7515.6	7807.8	7891.8	7727.2	7791.5	7834.0	8283.2	9187.1	7732.6
45°	7476.4	7539.6	7901.6	8253.8	8450.0	8357.4	8459.9	8476.2	8831.7	9889.3	8337.7
47.5°	7900.5	7972.5	8394.4	8764.1	9063.9	9073.7	9242.7	9236.2	9516.4	10692.8	9099.9
50°	8561.3	8664.8	9010.5	9356.1	9720.3	9923.1	10148.8	10117.2	10337.4	11548.8	9977.6
52.5°	9427.0	9475.0	9731.2	9986.3	10438.8	10893.5	11217.3	11188.9	11268.5	12428.6	10974.2
55°	10324.3	10360.3	10466.1	10605.6	11214.0	11955.4	12640.2	12595.5	12393.8	13342.3	11958.7
57.5°	11131.2	11204.2	11277.3	11335.1	11994.7	13065.4	14095.8	14099.0	13614.9	14328.0	12976.0
60°	11256.5	11320.9	11803.9	12259.6	13330.4	14546.1	15653.8	15621.1	14878.6	15397.6	14109.9
62.5°	9950.3	10095.3	10902.2	12114.6	14616.9	17254.4	17641.5	17601.2	16389.8	16715.8	15430.3
65°	7130.7	7295.4	8269.0	10091.0	13993.3	20238.7	21228.7	20685.7	18450.5	18337.1	16976.4
67.5°	4113.8	4153.1	4575.0	6038.2	10654.7	20394.6	26701.0	25941.1	21650.6	20176.5	17733.1
70°	3042.0	3040.9	3141.2	3715.8	5765.7	16644.9	29303.7	29985.1	25019.8	20781.7	16663.5
71°	2750.9	2754.2	2866.5	3382.2	4566.3	13932.2	28750.9	30242.4	25907.3	20482.9	15889.4
72.5°	2352.9	2363.8	2519.7	3033.3	3841.2	9608.0	26369.6	28698.5	26328.2	19745.8	14678.0
75°	1784.9	1809.9	2025.8	2556.8	3510.9	4872.7	19353.3	22916.5	23388.6	17423.4	10906.6
77.5°	1273.5	1301.9	1546.1	2150.1	3337.5	3672.2	12960.7	16715.8	17211.9	11166.0	4919.6
80°	804.7	838.5	1022.7	1710.7	3135.8	3486.9	8144.8	11235.8	9385.5	3573.0	1251.7
82.5°	472.1	498.3	634.6	1117.6	2561.2	3358.2	4792.0	6228.0	3652.6	1079.4	569.2
85°	273.7	285.7	395.8	712.0	1860.1	3169.6	3520.7	3481.4	1585.3	527.7	269.3
87.5°	127.6	141.7	234.4	371.8	1032.5	2297.3	2782.5	2404.2	985.7	247.5	126.5
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: P319778

CATALOG NUMBER: GAN-SA4D-760-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5	8672.5
2.5°	8597.2	8578.7	8501.3	8432.6	8360.6	8266.9	8163.3	8150.2	8087.0	8099.0	8077.2
5°	8427.1	8380.3	8193.8	8024.8	7825.3	7646.5	7452.4	7363.0	7234.3	7225.6	7192.9
7.5°	8184.0	8096.8	7807.8	7487.3	7166.7	6861.4	6559.4	6361.0	6158.2	6072.0	6064.4
10°	7910.3	7762.0	7336.8	6862.5	6400.2	5954.3	5522.5	5203.0	4915.2	4778.9	4773.5
12.5°	7650.8	7431.7	6848.4	6202.9	5570.5	4992.6	4400.6	3980.8	3619.9	3498.9	3447.6
15°	7430.6	7122.0	6373.0	5547.6	4780.0	3977.5	3303.7	2862.1	2528.5	2412.9	2391.1
17.5°	7216.9	6820.0	5885.6	4885.8	3957.9	3075.8	2400.9	2072.7	1895.0	1848.1	1847.0
20°	7004.3	6509.3	5376.4	4208.7	3163.0	2300.6	1845.9	1698.7	1638.8	1633.3	1624.6
22.5°	6763.3	6180.0	4841.1	3529.4	2468.5	1808.9	1569.0	1510.1	1502.5	1522.1	1522.1
25°	6537.6	5852.9	4298.1	2864.3	1920.1	1509.0	1401.1	1389.1	1409.8	1444.7	1448.0
27.5°	6327.2	5537.8	3768.2	2273.3	1538.5	1329.1	1284.4	1298.6	1335.7	1376.0	1377.1
30°	6153.8	5240.1	3253.5	1791.4	1299.7	1195.0	1187.4	1215.7	1256.1	1287.7	1295.3
32.5°	6019.7	4986.1	2756.3	1440.3	1143.8	1094.7	1101.2	1125.2	1150.3	1167.7	1179.7
35°	5957.6	4768.0	2297.3	1214.6	1044.5	1017.3	1026.0	1039.1	1050.0	1063.1	1072.9
37.5°	5968.5	4599.0	1887.4	1074.0	978.0	963.9	963.9	963.9	963.9	970.4	971.5
40°	6069.9	4502.0	1553.7	984.6	933.3	918.1	906.1	895.2	886.4	890.8	888.6
42.5°	6329.4	4493.2	1309.5	927.9	897.3	872.3	848.3	833.0	822.1	826.5	828.6
45°	6769.8	4602.3	1144.8	887.5	863.5	825.4	794.8	778.5	770.9	785.0	787.2
47.5°	7340.1	4840.0	1044.5	858.1	831.9	781.8	749.1	733.8	736.0	756.7	762.1
50°	8075.0	5225.9	996.6	839.6	810.1	744.7	710.9	697.8	704.4	733.8	740.3
52.5°	8881.8	5782.0	1002.0	834.1	795.9	717.4	681.5	666.2	677.1	704.4	709.8
55°	9813.0	6450.4	1092.5	841.7	775.2	700.0	657.5	631.3	640.0	665.1	669.5
57.5°	10847.7	7215.8	1274.6	839.6	749.1	683.6	632.4	593.1	599.7	614.9	619.3
60°	11924.9	8140.4	1557.0	846.1	737.1	664.0	598.6	549.5	547.3	560.4	562.6
62.5°	13218.0	9210.0	1879.7	850.5	744.7	638.9	553.9	505.9	499.4	502.6	504.8
65°	14550.4	9984.1	1758.7	833.0	768.7	618.2	514.6	463.4	451.4	449.2	450.3
67.5°	14591.9	9154.4	1233.2	798.1	778.5	607.3	485.2	427.4	407.8	400.2	399.1
70°	13086.1	7437.1	960.6	761.0	739.2	589.9	457.9	398.0	368.5	356.5	355.4
71°	12351.2	6846.2	910.4	742.5	709.8	572.4	445.9	384.9	354.4	341.3	339.1
72.5°	11198.8	6137.5	849.4	713.1	653.1	527.7	423.0	366.4	334.7	319.5	316.2
75°	8036.8	4013.5	729.4	635.7	540.8	420.9	370.7	329.3	302.0	283.5	281.3
77.5°	3096.5	1597.3	551.7	528.8	414.3	329.3	305.3	284.6	264.9	246.4	245.3
80°	957.3	714.2	402.3	398.0	299.8	245.3	237.7	232.2	224.6	205.0	200.6
82.5°	511.4	410.0	276.9	257.3	196.3	163.5	172.3	174.5	175.5	154.8	152.6
85°	244.2	217.0	155.9	146.1	114.5	91.6	105.8	114.5	115.6	94.9	88.3
87.5°	116.7	113.4	73.1	55.6	42.5	30.5	37.1	45.8	50.2	36.0	31.6
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)