

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: McGRAW-EDISON

Report Number: P529723

Luminaire Tested: **GALN-SA4D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14879 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

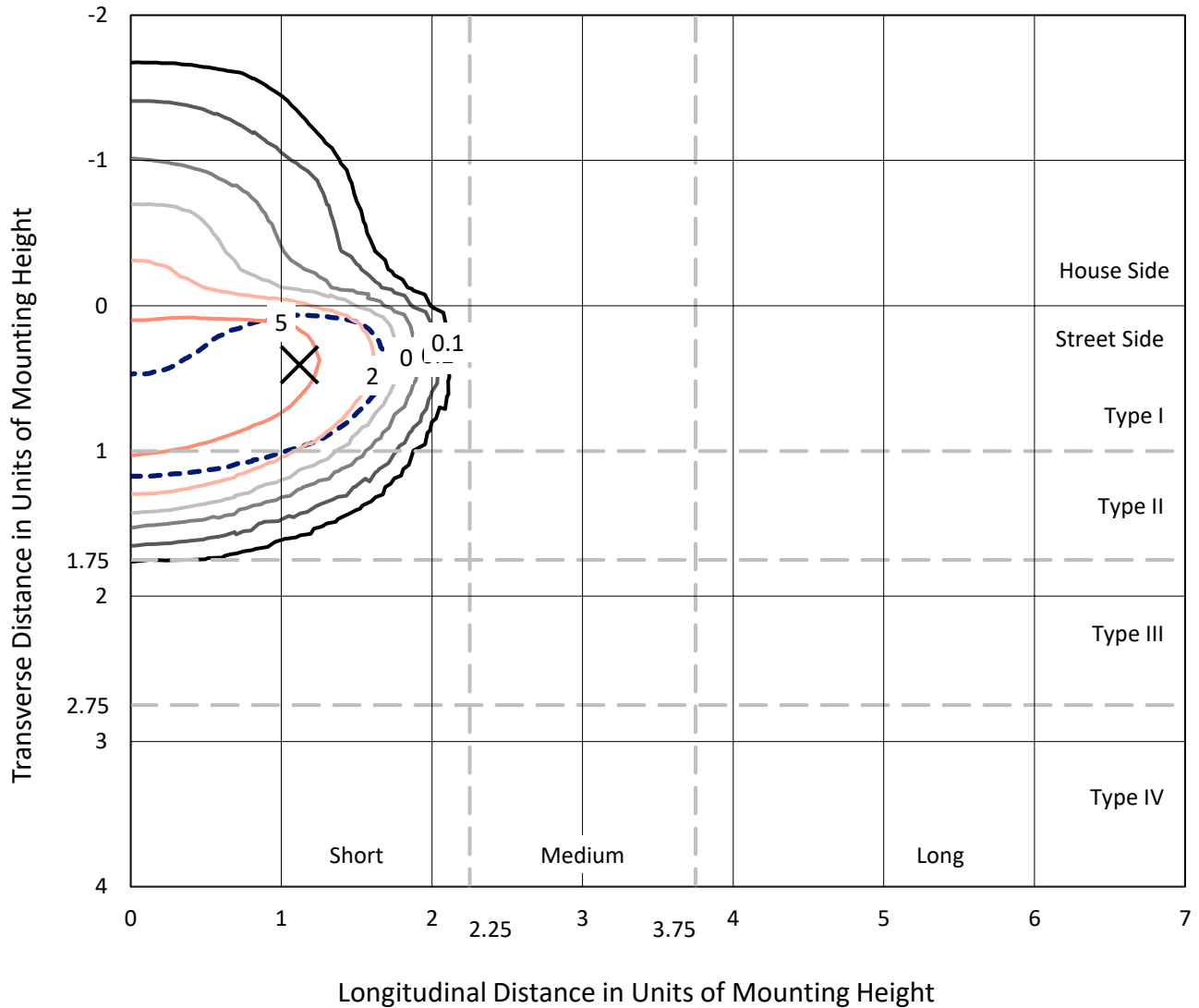
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

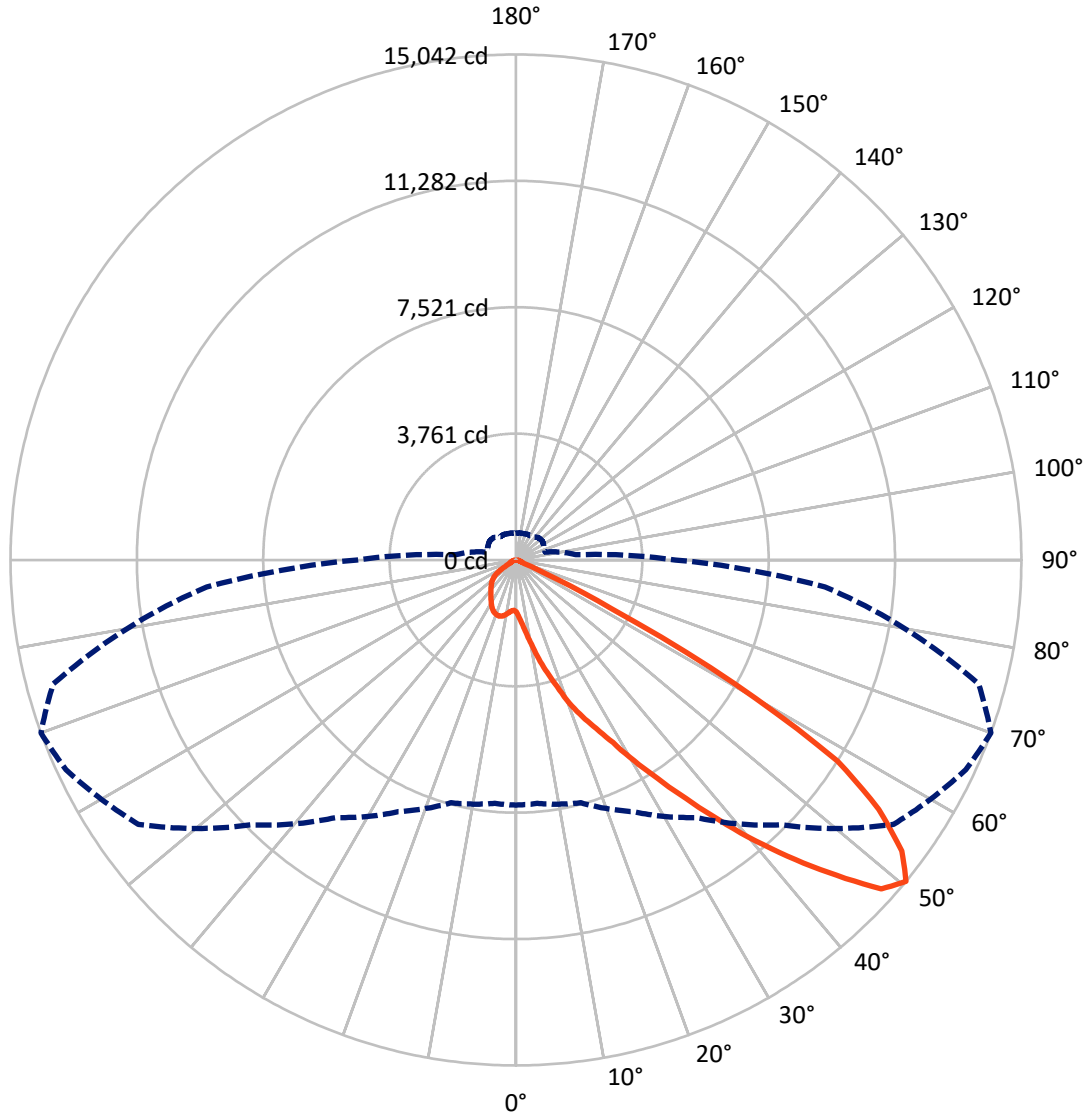
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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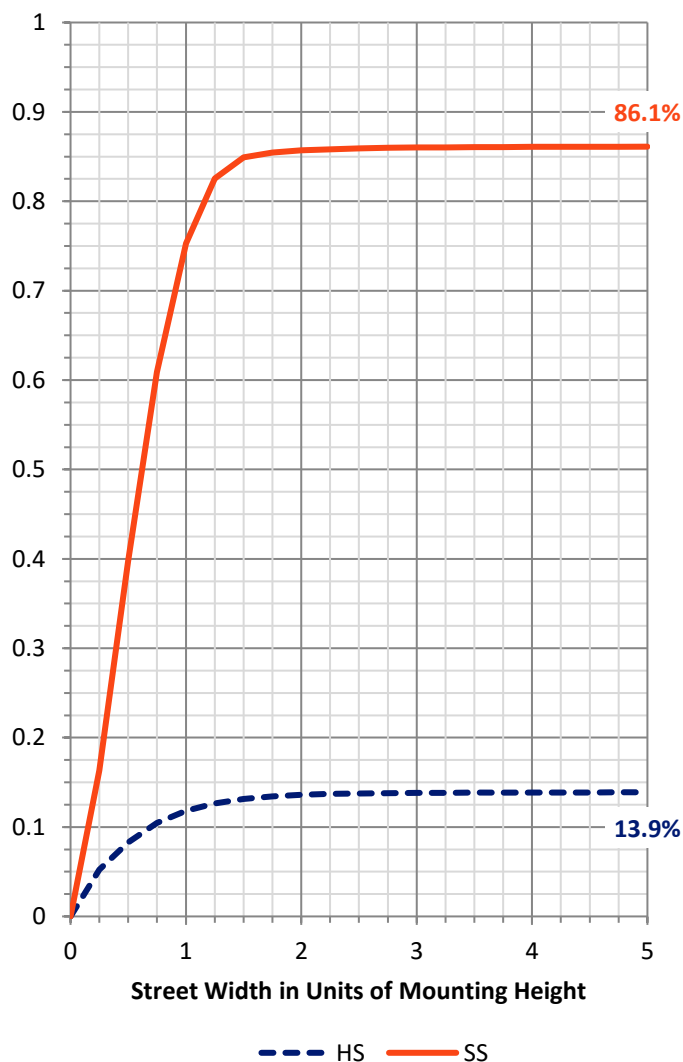
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.9	0.0	2077.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12801.0	0.0	12801.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	14879.0	0.0	14879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.3
10°-20°	866.9	5.8
20°-30°	1818.6	12.2
30°-40°	3134.7	21.1
40°-50°	4581.3	30.8
50°-60°	3568.1	24.0
60°-70°	604.5	4.1
70°-80°	83.1	0.6
80°-90°	21.5	0.1
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°	14879.0	100.0
0°-180°	14879.0	100.0

Coefficient of Utilization



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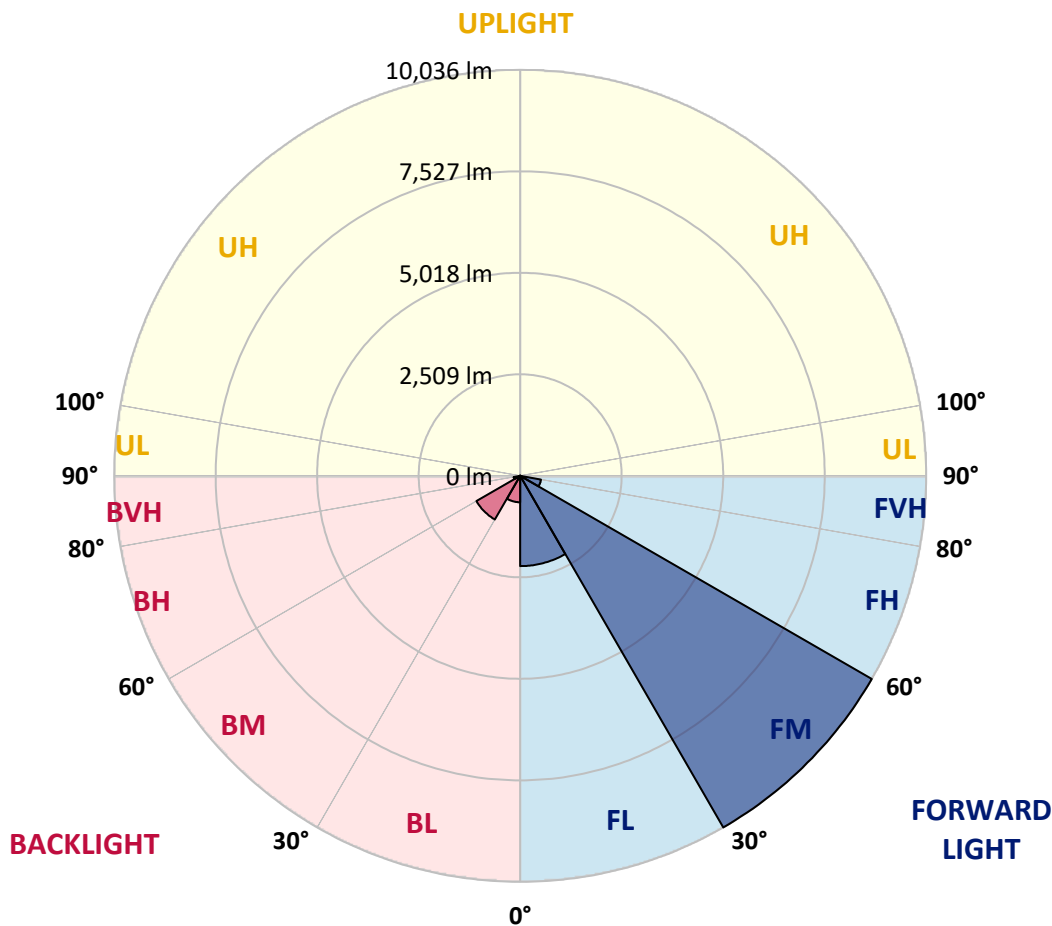
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.0	15.0			
FM (30°-60°)	10035.6	67.4			
FH (60°-80°)	523.4	3.5			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	653.9	4.4	B2/1000		
BM (30°-60°)	1248.4	8.4	B2/2500		
BH (60°-80°)	164.1	1.1	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	2018.2	2003.5	1971.7	1913.0	1888.5	1829.8	1795.6	1729.5	1687.9	1641.5	1590.1
5°	2842.6	2766.8	2720.3	2654.2	2461.0	2341.1	2143.0	1974.2	1895.9	1810.3	1692.8
7.5°	3693.9	3645.0	3581.4	3439.5	3307.4	3057.9	2717.8	2346.0	2187.0	2040.2	1807.8
10°	4398.5	4261.5	4254.1	4148.9	4004.6	3706.2	3297.6	2835.3	2551.5	2336.2	1971.7
12.5°	4890.2	4765.4	4821.7	4809.4	4674.9	4400.9	3928.8	3317.2	3021.2	2686.0	2140.5
15°	5337.8	5286.5	5269.3	5254.7	5200.8	4997.8	4574.6	3904.3	3476.2	3072.6	2331.3
17.5°	5775.7	5643.6	5707.2	5719.5	5714.6	5531.1	5134.8	4462.1	3958.1	3481.1	2531.9
20°	6164.7	6176.9	6091.3	6074.2	6059.5	6052.2	5665.6	5014.9	4550.1	3909.2	2793.7
22.5°	6663.7	6578.1	6653.9	6605.0	6509.6	6450.9	6154.9	5504.2	5063.8	4425.4	3060.3
25°	7253.3	7321.8	7143.2	7123.6	7018.4	6815.4	6548.8	6052.2	5558.0	4904.8	3349.0
27.5°	7979.8	7860.0	7813.5	7705.9	7515.0	7429.4	7116.3	6617.3	6154.9	5408.8	3627.9
30°	8603.7	8571.8	8339.4	8212.2	8045.9	8043.4	7605.6	7382.9	6932.8	6198.9	4011.9
32.5°	9112.5	8973.0	8887.4	8799.4	8664.8	8701.5	8332.1	8214.7	7762.1	6932.8	4464.5
35°	9452.5	9352.2	9300.8	9166.3	9127.2	9291.1	9136.9	9088.0	8716.2	7965.2	4995.4
37.5°	9560.2	9592.0	9582.2	9413.4	9496.6	9939.3	10137.5	10010.3	9814.6	9053.8	5570.2
40°	9655.6	9677.6	9628.7	9826.8	10064.1	10568.0	11284.8	11074.4	11001.0	10157.1	6370.2
42.5°	9709.4	9692.3	9692.3	10034.7	10394.3	11407.1	12393.0	12253.5	12197.3	11331.3	7294.9
45°	9477.0	9310.6	9489.2	9954.0	10678.1	11820.5	13278.5	13471.8	13391.1	12728.1	8376.1
47.5°	8608.5	8711.3	8811.6	9432.9	10333.2	11693.3	13821.6	14479.7	14628.9	13902.3	9085.6
50°	7294.9	7272.9	7480.8	8263.6	9357.1	11145.4	13716.4	14770.8	15042.3	14254.6	9234.8
52.5°	5306.0	5467.5	5692.5	6470.5	7767.0	9726.5	12358.7	14019.8	14381.8	13821.6	9136.9
55°	3089.7	2911.1	3417.5	4075.5	5298.7	7336.5	10448.2	12427.2	13097.5	13033.9	8642.8
57.5°	1237.8	1198.7	1372.4	1849.4	2764.3	4547.7	7598.2	10210.9	11284.8	11938.0	7595.8
60°	543.1	530.8	623.8	753.5	1130.2	2096.5	4156.3	6350.6	7471.0	8341.9	5227.8
62.5°	391.4	386.5	433.0	479.5	596.9	912.5	1746.7	2558.8	3190.0	3852.9	2341.1
65°	315.6	327.8	359.6	384.1	440.3	506.4	616.5	711.9	873.3	905.1	516.2
67.5°	256.9	266.6	296.0	322.9	332.7	274.0	283.8	249.5	249.5	222.6	178.6
70°	188.4	190.8	225.1	256.9	205.5	110.1	193.3	193.3	173.7	166.3	151.7
72.5°	139.4	141.9	168.8	159.0	80.7	68.5	141.9	156.6	141.9	134.5	122.3
75°	102.7	105.2	88.1	36.7	34.2	44.0	83.2	107.6	102.7	100.3	93.0
77.5°	19.6	14.7	12.2	17.1	24.5	36.7	53.8	66.1	68.5	73.4	68.5
80°	2.4	2.4	7.3	14.7	26.9	39.1	56.3	63.6	66.1	68.5	63.6
82.5°	0.0	2.4	7.3	14.7	26.9	36.7	48.9	56.3	61.2	63.6	61.2
85°	0.0	2.4	4.9	12.2	22.0	26.9	24.5	17.1	14.7	17.1	12.2
87.5°	0.0	0.0	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1560.7	1551.0	1516.7	1480.0	1448.2	1462.9	1448.2	1436.0	1440.9	1436.0	1431.1
5°	1646.4	1602.3	1528.9	1497.1	1470.2	1467.8	1460.4	1458.0	1460.4	1460.4	1438.4
7.5°	1727.1	1656.1	1577.9	1543.6	1511.8	1514.3	1497.1	1497.1	1494.7	1482.5	1477.6
10°	1849.4	1754.0	1653.7	1592.5	1553.4	1546.1	1528.9	1511.8	1511.8	1511.8	1487.4
12.5°	1984.0	1864.1	1727.1	1656.1	1609.7	1573.0	1546.1	1541.2	1514.3	1509.4	1497.1
15°	2101.4	1949.7	1776.0	1678.2	1619.5	1570.5	1528.9	1502.0	1489.8	1482.5	1472.7
17.5°	2216.4	2023.1	1802.9	1678.2	1614.6	1558.3	1514.3	1489.8	1460.4	1465.3	1445.8
20°	2370.5	2101.4	1810.3	1646.4	1568.1	1514.3	1455.6	1443.3	1426.2	1411.5	1416.4
22.5°	2519.7	2157.6	1788.2	1607.2	1494.7	1431.1	1401.7	1387.1	1379.7	1367.5	1350.4
25°	2654.2	2218.8	1754.0	1536.3	1416.4	1369.9	1343.0	1340.6	1323.5	1323.5	1291.6
27.5°	2791.2	2240.8	1695.3	1453.1	1347.9	1321.0	1308.8	1303.9	1296.5	1279.4	1257.4
30°	2947.8	2248.2	1609.7	1367.5	1286.8	1257.4	1274.5	1286.8	1255.0	1223.2	1232.9
32.5°	3077.5	2231.0	1506.9	1286.8	1242.7	1228.0	1262.3	1274.5	1237.8	1203.6	1186.5
35°	3234.0	2189.4	1406.6	1223.2	1198.7	1228.0	1257.4	1257.4	1184.0	1142.4	1132.6
37.5°	3471.3	2143.0	1313.7	1169.3	1152.2	1213.4	1252.5	1225.6	1110.6	1059.2	1047.0
40°	3725.7	2113.6	1223.2	1115.5	1127.7	1188.9	1210.9	1127.7	1010.3	978.5	968.7
42.5°	4095.1	2054.9	1142.4	1069.0	1105.7	1154.7	1154.7	1005.4	961.4	944.3	941.8
45°	4555.0	2013.3	1071.5	1029.9	1073.9	1086.2	1047.0	941.8	910.0	905.1	907.6
47.5°	4780.1	1932.6	998.1	983.4	1015.2	1017.7	914.9	890.5	863.5	856.2	851.3
50°	4745.8	1788.2	902.7	922.3	966.3	941.8	834.2	839.1	814.6	812.2	799.9
52.5°	4506.1	1560.7	807.3	853.8	902.7	831.7	768.1	763.2	763.2	731.4	719.2
55°	3994.8	1257.4	692.3	751.0	809.7	699.6	682.5	677.6	665.4	636.0	628.7
57.5°	3163.1	922.3	521.1	584.7	687.4	594.5	592.0	570.0	538.2	516.2	516.2
60°	1881.2	530.8	327.8	357.2	455.0	481.9	535.7	526.0	472.1	437.9	428.1
62.5°	858.7	274.0	207.9	212.8	244.6	313.1	420.8	486.8	411.0	352.3	347.4
65°	288.7	203.0	171.2	163.9	168.8	188.4	252.0	344.9	327.8	271.5	261.8
67.5°	176.1	181.0	161.5	149.2	149.2	146.8	144.3	156.6	193.3	188.4	190.8
70°	151.7	166.3	149.2	134.5	129.7	122.3	102.7	85.6	73.4	85.6	90.5
72.5°	122.3	132.1	127.2	115.0	102.7	93.0	73.4	56.3	41.6	36.7	36.7
75°	90.5	97.9	102.7	88.1	78.3	66.1	53.8	36.7	22.0	14.7	14.7
77.5°	66.1	73.4	75.8	68.5	58.7	46.5	34.2	24.5	12.2	4.9	4.9
80°	56.3	66.1	73.4	68.5	61.2	44.0	31.8	17.1	9.8	2.4	2.4
82.5°	53.8	66.1	73.4	66.1	58.7	41.6	31.8	19.6	7.3	2.4	2.4
85°	12.2	17.1	22.0	26.9	31.8	31.8	24.5	14.7	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	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)