

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: P532985

Luminaire Tested: **GALN-SA8B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25197 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

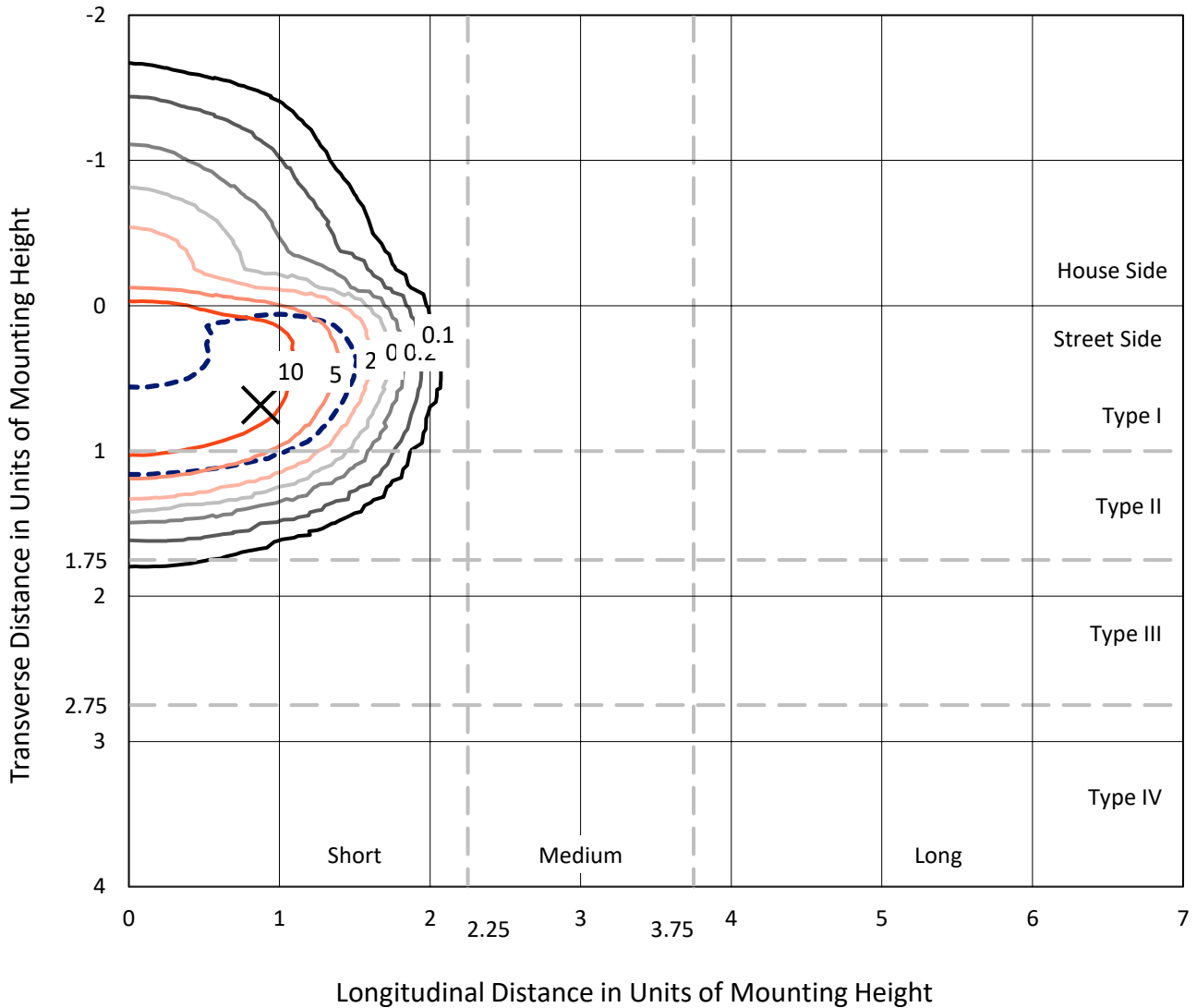
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

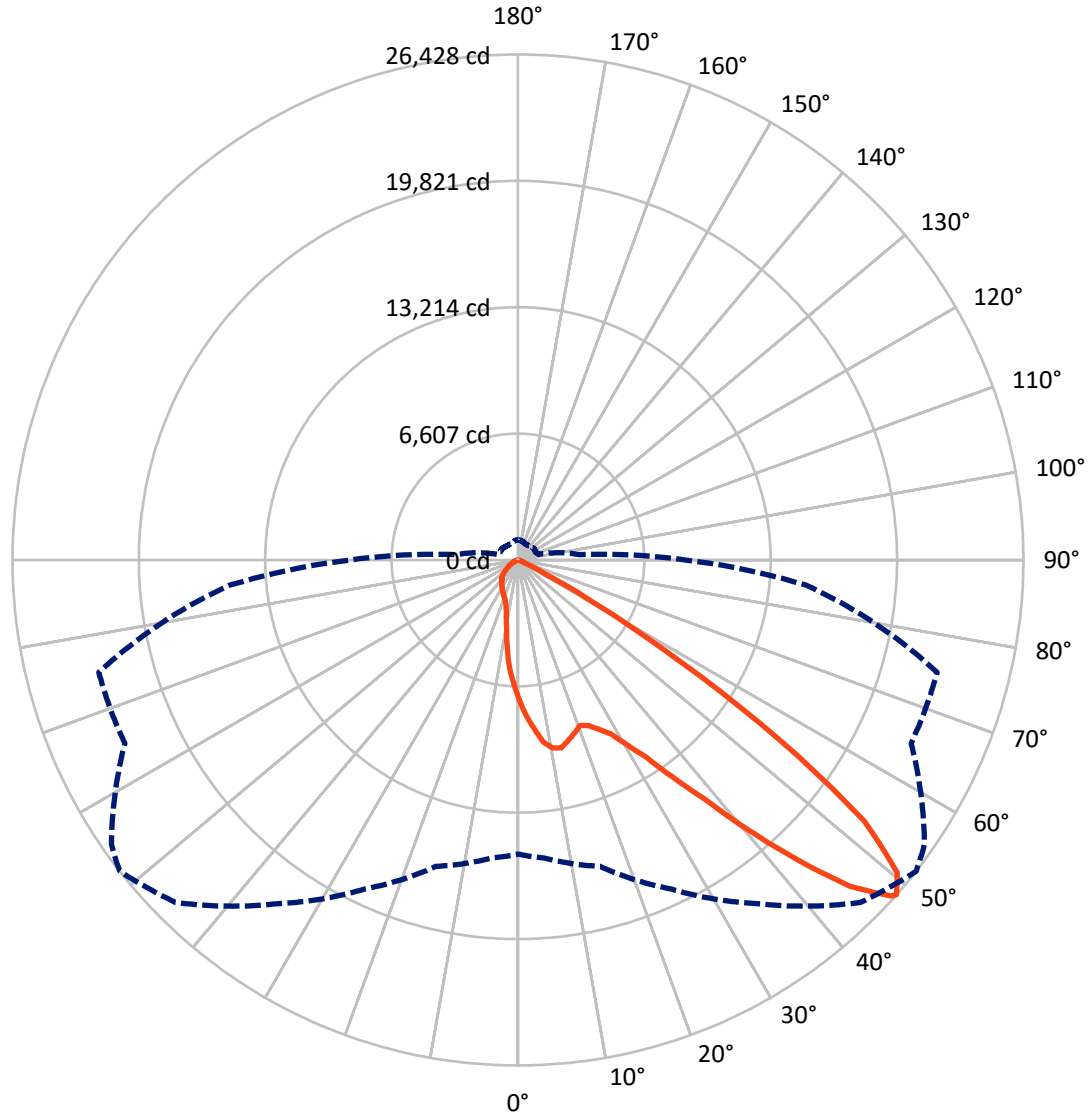
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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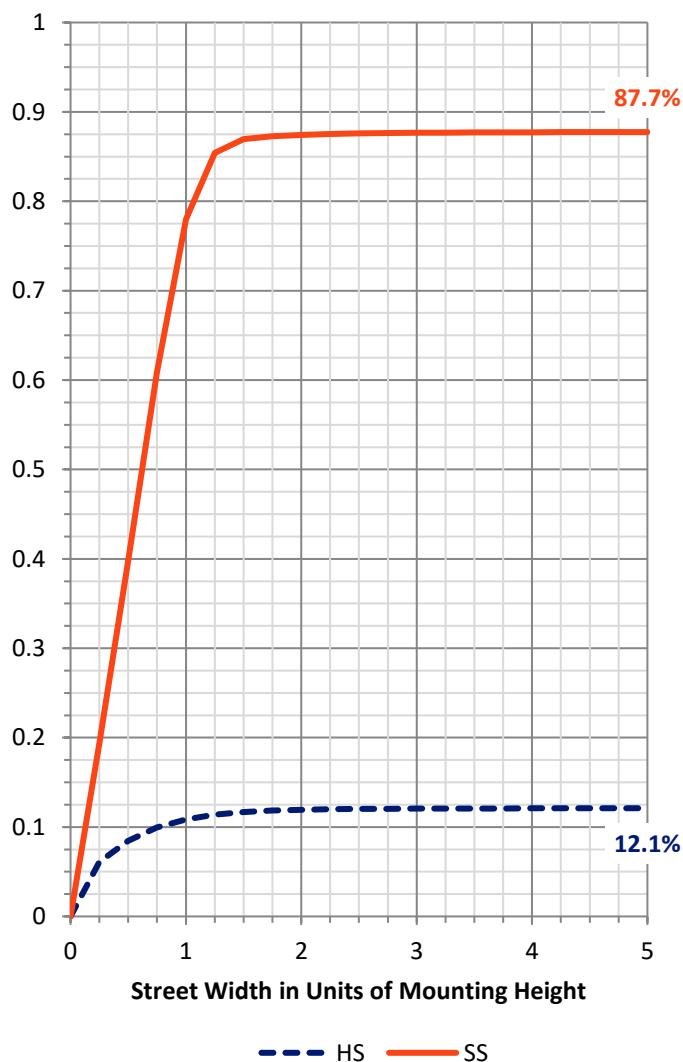
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3067.9	0.0	3067.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22129.1	0.0	22129.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	25197.0	0.0	25197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.0	2.6
10°-20°	1740.5	6.9
20°-30°	2971.8	11.8
30°-40°	5472.5	21.7
40°-50°	8498.8	33.7
50°-60°	5114.8	20.3
60°-70°	591.6	2.3
70°-80°	114.5	0.5
80°-90°	26.5	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°	25197.0	100.0
0°-180°	25197.0	100.0

Coefficient of Utilization



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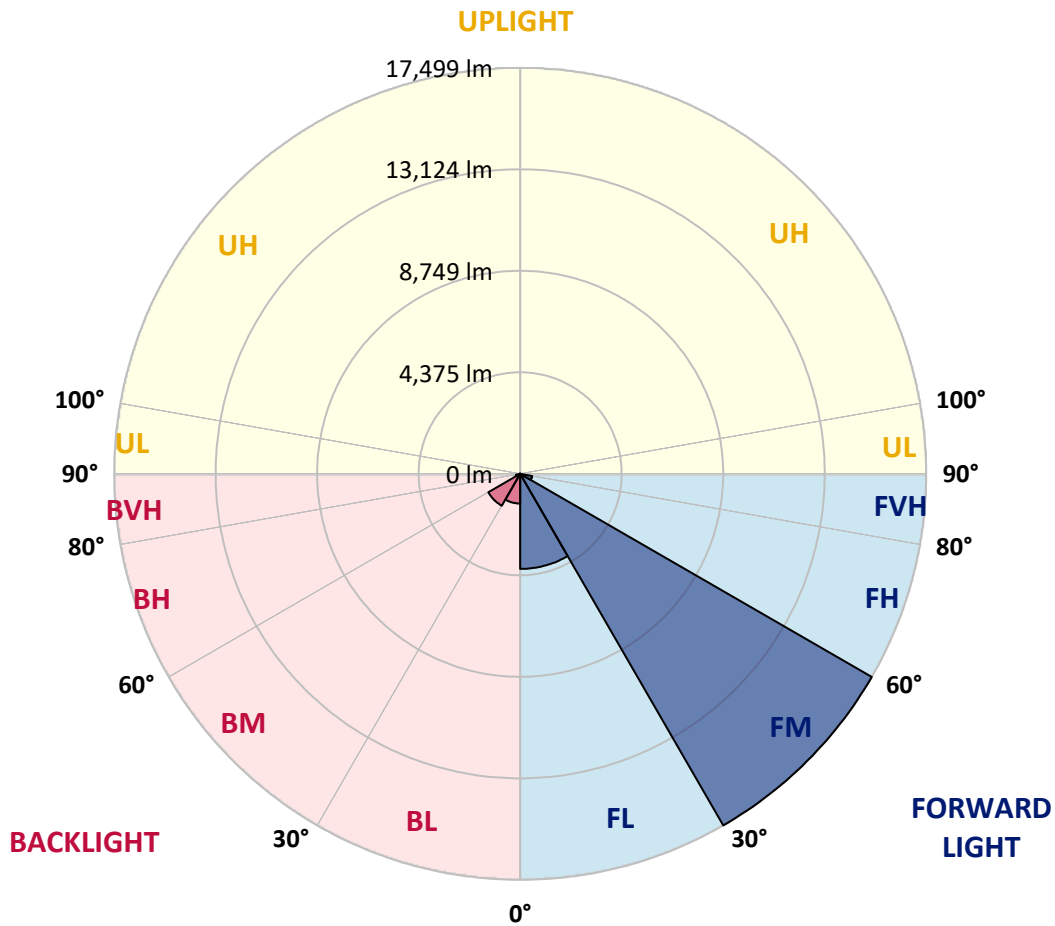
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4096.7	16.3			
FM (30°-60°)	17498.8	69.4			
FH (60°-80°)	520.9	2.1			G0/660
FVH (80°-90°)	12.6	0.0			G1/100
BL (0°-30°)	1281.6	5.1	B3/2500		
BM (30°-60°)	1587.3	6.3	B2/2500		
BH (60°-80°)	185.2	0.7	B1/500		G1/500
BVH (80°-90°)	13.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5
2.5°	8819.2	8617.2	8635.5	8503.3	8426.2	8301.3	8132.3	8099.3	7915.6	7665.8	7412.4
5°	9612.6	9564.8	9627.3	9436.3	9443.6	9237.9	8841.2	8848.6	8426.2	8018.4	7625.4
7.5°	9664.0	9553.8	9616.3	9785.2	9884.4	9847.7	9623.6	9428.9	9028.6	8429.8	7856.8
10°	8653.9	8863.3	8929.4	9208.5	9605.2	10024.0	9998.3	10009.3	9675.0	8892.7	8055.2
12.5°	8047.8	7908.3	8132.3	8301.3	8900.0	9711.8	10082.7	10163.6	10189.3	9340.8	8253.5
15°	7772.3	7772.3	7809.1	7856.8	8290.3	9039.6	9796.2	10031.3	10586.0	9928.5	8565.7
17.5°	7945.0	7937.6	7989.1	7889.9	8051.5	8628.2	9531.8	9799.9	11030.4	10505.2	8811.8
20°	8470.2	8496.0	8462.9	8176.4	8187.4	8620.8	9237.9	9660.3	11331.6	11004.7	9138.8
22.5°	9201.2	9215.9	9028.6	8716.3	8624.5	8837.6	9406.9	9730.1	11574.0	11603.4	9237.9
25°	10046.0	9987.2	9950.5	9509.7	9230.6	9414.2	9788.9	9976.2	11724.6	12117.7	9520.8
27.5°	11217.7	11100.2	10876.1	10483.1	10277.4	10016.6	10284.8	10593.3	12154.4	12837.6	9829.3
30°	12947.8	12844.9	12407.8	11900.9	11361.0	11103.9	11188.4	11357.3	12929.4	13671.4	10237.0
32.5°	15552.0	15335.3	14703.5	13737.5	13002.9	12294.0	12271.9	12451.9	13623.6	14824.8	10721.9
35°	18420.8	18354.6	17425.3	16429.9	15008.4	13913.8	13932.2	14027.7	14953.3	16338.1	11357.3
37.5°	20327.1	20690.8	20099.4	19030.5	17836.7	16272.0	15875.3	15908.3	16778.9	18130.6	12503.3
40°	21800.0	21491.5	21561.3	21311.5	20496.1	19430.9	18553.0	18380.4	18890.9	20114.1	13642.0
42.5°	21157.2	21171.9	21601.7	22193.1	22395.1	22318.0	21421.7	21094.8	20698.1	21737.6	14725.6
45°	19342.7	19721.0	20279.4	21844.1	23217.9	24507.1	24330.8	23787.2	21947.0	23023.2	15350.0
47.5°	16448.3	16433.6	17348.2	19383.1	22435.5	25454.8	26255.5	25873.5	22832.2	22879.9	15221.5
48°	15379.4	15643.9	16587.9	18982.7	21939.6	25315.2	26428.2	25947.0	22681.6	22688.9	15111.3
50°	11368.3	11320.6	12496.0	15434.5	19596.2	23787.2	25700.9	26075.6	22677.9	21722.9	14339.9
52.5°	6005.6	6211.3	7067.1	9704.4	13855.1	19467.6	22670.6	23254.6	21877.2	20143.5	13230.6
55°	2552.8	2306.7	2964.2	4382.0	7794.4	13006.6	16631.9	17932.2	18497.9	17825.7	11574.0
57.5°	910.9	995.4	1146.0	1649.2	3276.4	7118.5	9917.5	10927.6	12815.6	13080.0	7886.2
60°	584.0	595.0	642.8	756.7	1230.5	2743.8	4705.3	5509.7	6365.5	6571.2	3680.5
62.5°	451.8	455.5	477.5	495.9	584.0	1065.2	1766.8	2093.7	2174.5	1869.6	966.0
65°	378.3	382.0	389.4	389.4	415.1	499.5	617.1	679.5	661.2	653.8	547.3
67.5°	290.2	297.5	312.2	312.2	326.9	304.9	341.6	363.6	411.4	499.5	466.5
70°	227.7	231.4	242.4	249.8	249.8	220.4	246.1	268.1	301.2	371.0	367.3
72.5°	176.3	183.7	191.0	191.0	180.0	150.6	176.3	194.7	216.7	257.1	249.8
75°	135.9	135.9	139.6	113.9	88.2	77.1	106.5	128.6	161.6	169.0	139.6
77.5°	36.7	40.4	36.7	33.1	36.7	55.1	69.8	80.8	102.8	102.8	91.8
80°	0.0	3.7	11.0	22.0	36.7	51.4	62.4	69.8	80.8	88.2	84.5
82.5°	0.0	3.7	11.0	22.0	33.1	40.4	55.1	58.8	66.1	77.1	77.1
85°	0.0	3.7	7.3	14.7	22.0	25.7	25.7	22.0	22.0	18.4	14.7
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	11.0	11.0	11.0	11.0	11.0
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°	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5	7276.5
2.5°	7313.2	7199.3	7026.7	6754.9	6494.1	6325.1	6163.5	5983.5	5884.4	5877.0	5821.9
5°	7401.4	7144.2	6732.9	6266.4	5766.8	5337.1	4903.6	4620.8	4367.4	4227.8	4202.1
7.5°	7449.1	7114.9	6450.0	5667.6	4815.5	4113.9	3629.1	3272.8	3133.2	3030.3	3026.7
10°	7548.3	7063.4	6027.6	4874.2	3820.1	3111.1	2776.9	2615.3	2538.1	2508.7	2464.7
12.5°	7621.7	6967.9	5594.2	4058.8	3019.3	2578.5	2431.6	2394.9	2398.6	2413.2	2394.9
15°	7724.6	6883.4	5010.2	3331.5	2534.5	2321.4	2321.4	2328.8	2380.2	2387.5	2383.9
17.5°	7717.3	6718.2	4407.8	2743.8	2240.6	2211.2	2222.2	2292.0	2325.1	2336.1	2310.4
20°	7805.4	6563.9	3787.0	2343.5	2075.3	2119.4	2192.9	2211.2	2251.6	2259.0	2229.6
22.5°	7779.7	6178.2	3210.3	2027.6	1950.4	2034.9	2108.4	2130.4	2119.4	2097.4	2093.7
25°	7731.9	5847.6	2681.4	1818.2	1858.6	1950.4	2020.2	1979.8	1957.8	1961.5	1965.1
27.5°	7647.5	5428.9	2244.3	1671.3	1733.7	1869.6	1866.0	1851.3	1873.3	1854.9	1873.3
30°	7632.8	5010.2	1884.3	1539.0	1641.9	1741.1	1748.4	1774.1	1799.8	1766.8	1799.8
32.5°	7654.8	4551.0	1627.2	1458.2	1586.8	1590.5	1671.3	1697.0	1678.6	1605.2	1612.5
35°	7823.8	4198.4	1439.9	1414.2	1498.6	1502.3	1579.4	1546.4	1465.6	1421.5	1447.2
37.5°	8180.1	3904.5	1351.7	1373.8	1381.1	1428.8	1432.5	1366.4	1373.8	1370.1	1384.8
40°	8635.5	3680.5	1289.3	1337.0	1329.7	1362.7	1230.5	1267.2	1300.3	1311.3	1318.7
42.5°	8947.8	3518.9	1248.9	1278.3	1263.6	1204.8	1131.3	1168.1	1193.8	1234.2	1241.5
45°	9087.3	3390.3	1201.1	1175.4	1175.4	1068.9	1039.5	1046.8	1105.6	1149.7	1142.3
47.5°	8859.6	3265.4	1116.6	1039.5	1065.2	977.1	944.0	944.0	1006.4	1061.5	1050.5
48°	8771.4	3214.0	1120.3	1010.1	1028.5	962.4	929.3	922.0	991.7	1043.2	1043.2
50°	8334.3	3023.0	1024.8	929.3	892.6	885.2	863.2	870.5	914.6	962.4	962.4
52.5°	7482.2	2611.6	866.9	797.1	731.0	775.0	786.1	771.4	793.4	837.5	833.8
55°	6244.3	2005.5	694.2	661.2	609.7	657.5	679.5	661.2	639.1	672.2	672.2
57.5°	4000.0	1079.9	554.6	562.0	510.6	558.3	576.7	532.6	492.2	517.9	514.2
60°	1803.5	646.5	455.5	444.4	411.4	466.5	495.9	444.4	389.4	407.7	426.1
62.5°	675.9	459.1	345.3	337.9	330.6	382.0	396.7	356.3	301.2	312.2	315.9
65°	495.9	404.0	275.5	249.8	264.5	301.2	293.9	253.4	216.7	216.7	224.1
67.5°	422.4	352.6	224.1	194.7	194.7	198.3	183.7	161.6	150.6	157.9	165.3
70°	330.6	279.2	176.3	150.6	135.9	121.2	106.5	102.8	91.8	102.8	99.2
72.5°	213.0	187.3	135.9	113.9	102.8	84.5	69.8	66.1	55.1	51.4	51.4
75°	113.9	113.9	106.5	91.8	80.8	66.1	55.1	44.1	29.4	22.0	22.0
77.5°	80.8	88.2	95.5	88.2	73.5	55.1	44.1	29.4	14.7	7.3	7.3
80°	77.1	88.2	95.5	84.5	73.5	55.1	40.4	22.0	11.0	3.7	3.7
82.5°	69.8	80.8	88.2	77.1	66.1	47.8	36.7	22.0	11.0	3.7	3.7
85°	14.7	18.4	22.0	22.0	25.7	33.1	25.7	18.4	7.3	3.7	3.7
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	7.3	7.3	3.7	3.7	3.7
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)