

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: P532758

Luminaire Tested: **GALN-SA8A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22966 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

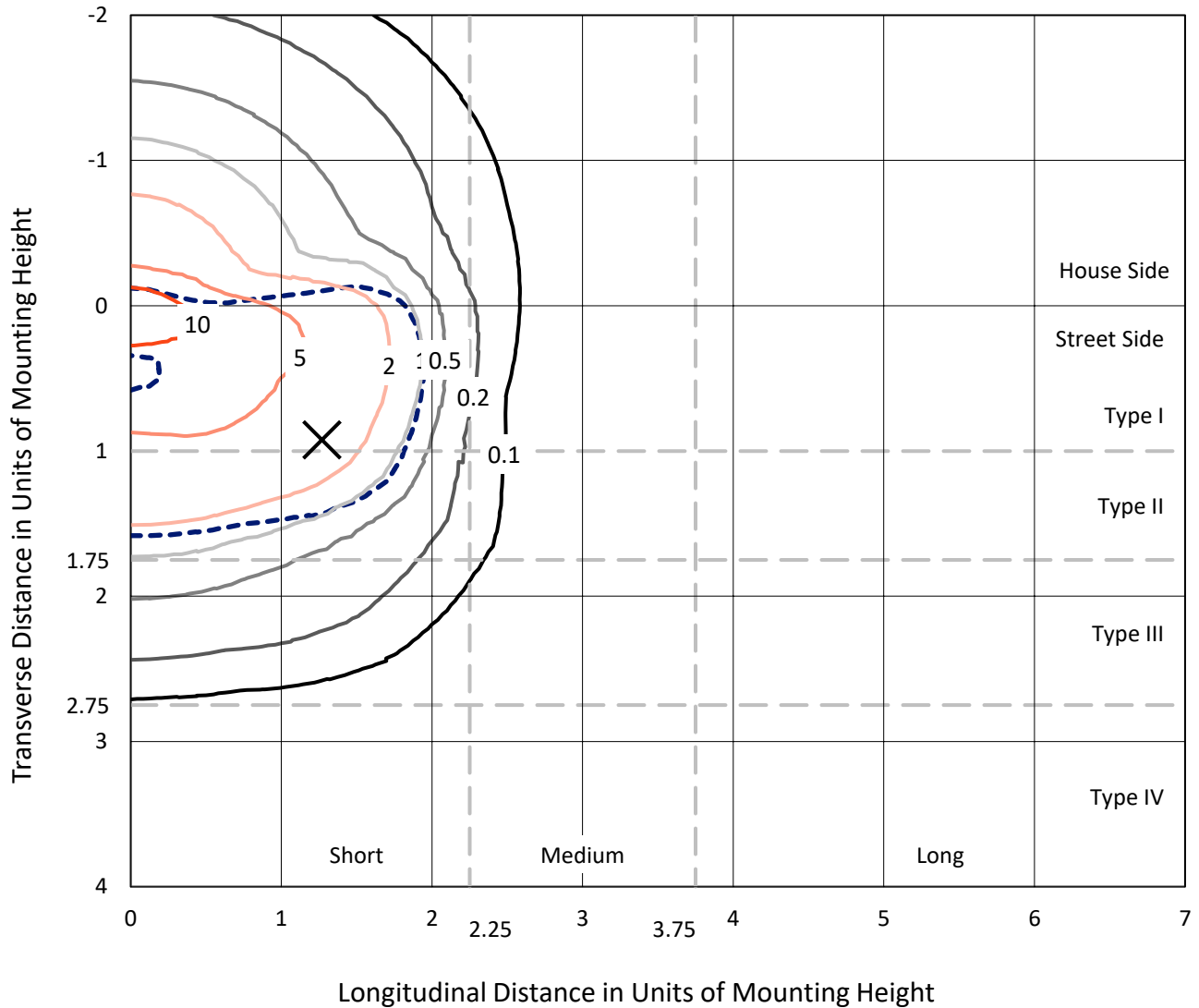
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532758
 CATALOG NUMBER: GALN-SA8A-827-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

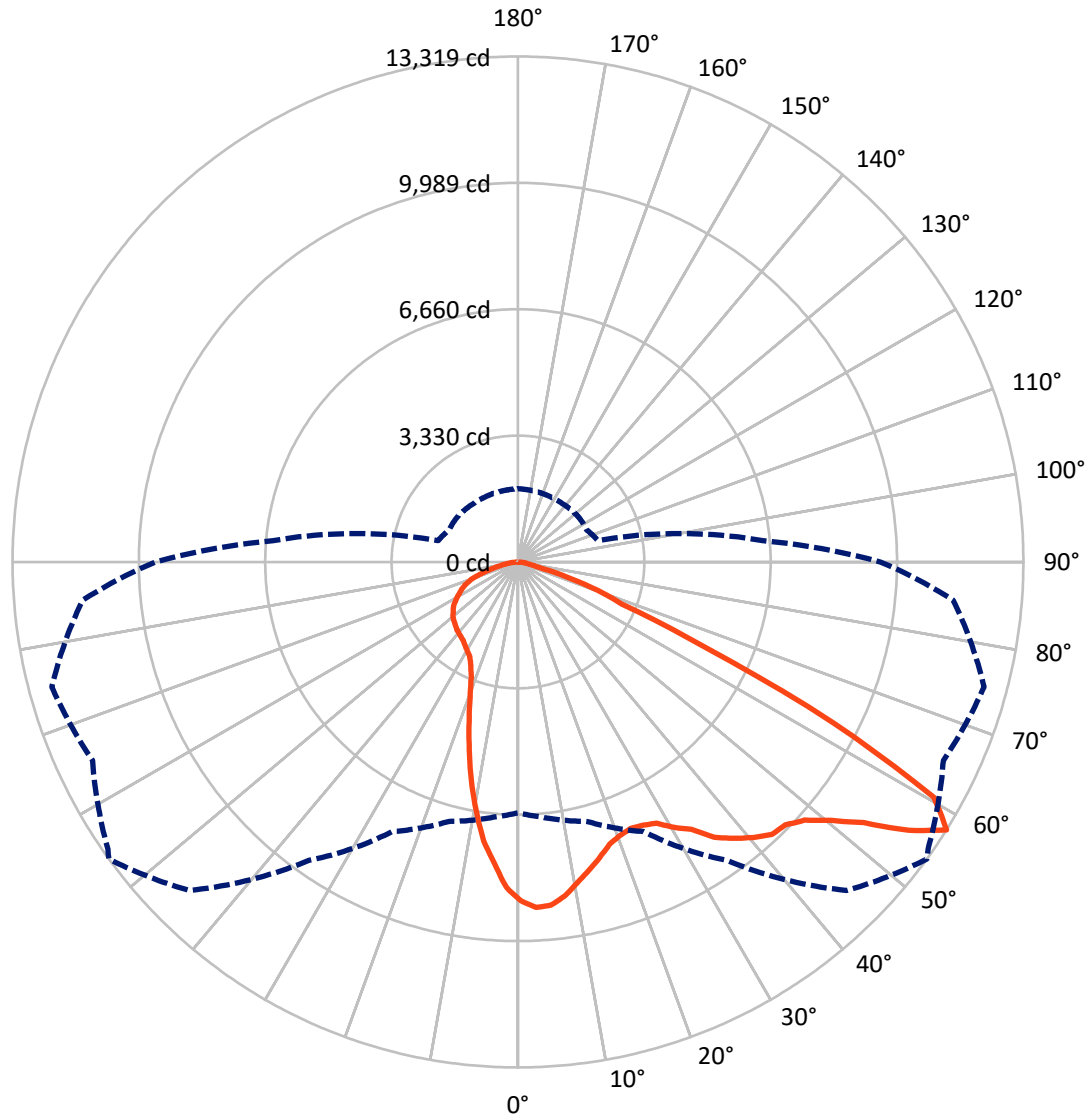
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P532758
CATALOG NUMBER: GALN-SA8A-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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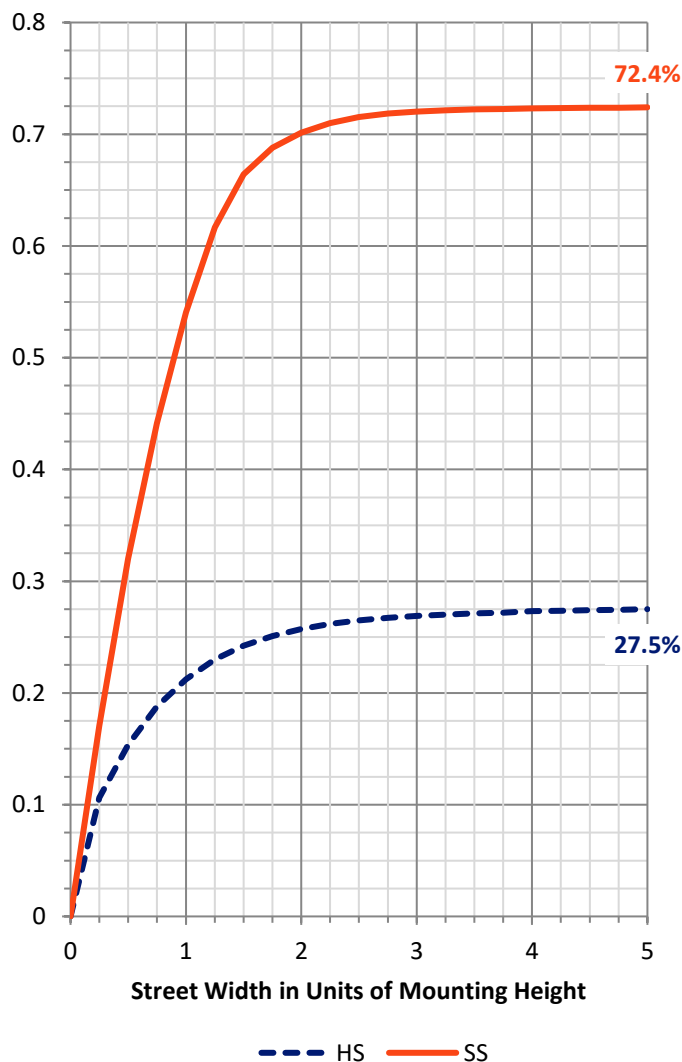
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6353.7	0.0	6353.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16612.3	0.0	16612.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	22966.0	0.0	22966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.8	3.4
10°-20°	1782.4	7.8
20°-30°	2504.4	10.9
30°-40°	3501.1	15.2
40°-50°	4739.8	20.6
50°-60°	5773.3	25.1
60°-70°	3007.0	13.1
70°-80°	770.5	3.4
80°-90°	117.5	0.5
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°	22966.0	100.0
0°-180°	22966.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532758

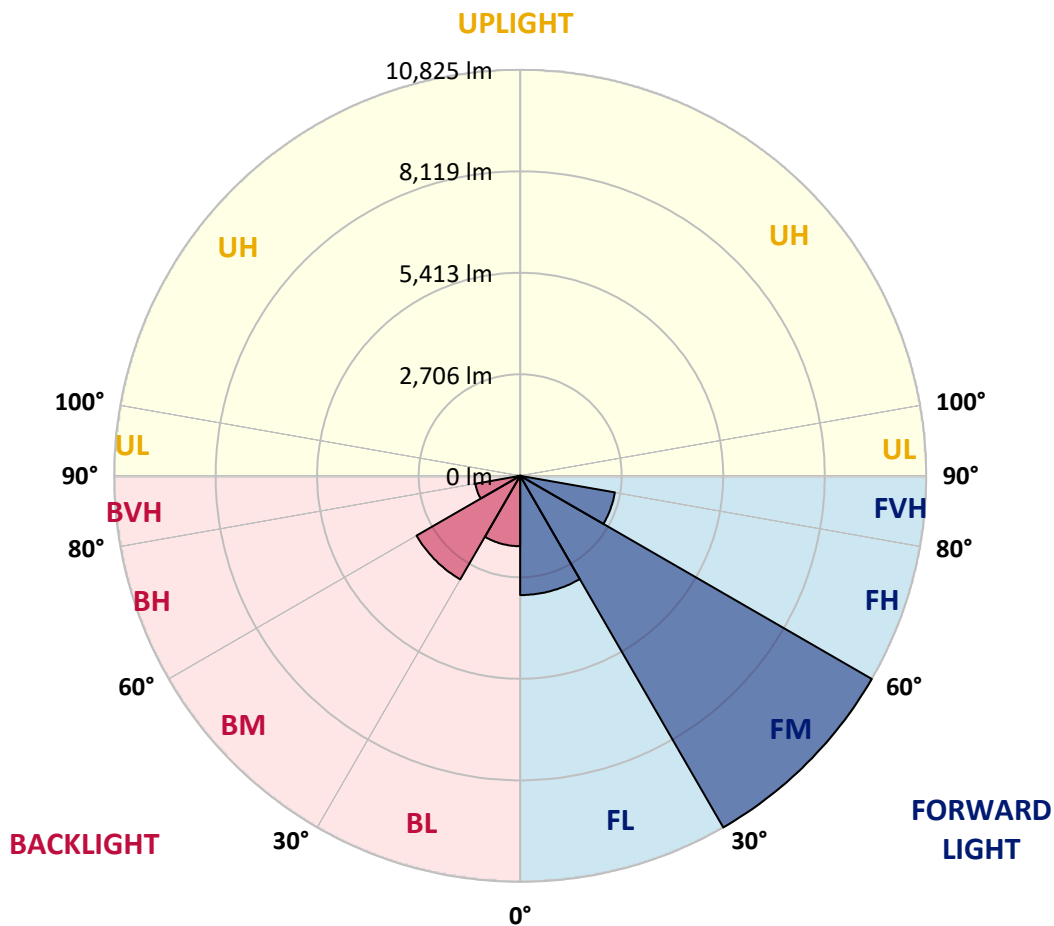
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3178.8	13.8			
FM (30°-60°)	10825.5	47.1			
FH (60°-80°)	2563.6	11.2			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	1877.8	8.2	B3/2500		
BM (30°-60°)	3188.9	13.9	B3/5000		
BH (60°-80°)	1213.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	73.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P532758

CATALOG NUMBER: GALN-SA8A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6
2.5°	9180.5	9145.1	9151.0	9198.2	9139.2	9115.5	9115.5	9000.4	9009.3	8929.6	8908.9
5°	8967.9	8885.3	8941.4	9012.2	9024.0	9047.7	9086.0	9056.5	8973.9	8888.2	8749.5
7.5°	8413.0	8486.8	8507.4	8557.6	8663.9	8761.3	8882.3	8799.7	8796.7	8711.1	8628.5
10°	7925.9	7881.6	7993.8	8067.6	8244.7	8407.1	8593.1	8584.2	8628.5	8531.1	8389.4
12.5°	7441.8	7406.4	7459.5	7627.8	7875.7	8111.9	8333.3	8250.6	8486.8	8469.1	8165.0
15°	6928.2	6954.7	7031.5	7187.9	7512.6	7796.0	8076.5	8079.4	8289.0	8359.9	7952.5
17.5°	6568.0	6538.5	6635.9	6869.1	7158.4	7497.9	7816.7	7881.6	8203.4	8244.7	7887.5
20°	6299.4	6340.7	6467.7	6585.7	6919.3	7329.6	7689.8	7713.4	8185.7	8297.9	7784.2
22.5°	6234.5	6210.9	6252.2	6444.1	6718.6	7164.3	7621.9	7710.4	8182.7	8280.1	7589.4
25°	6166.6	6243.3	6240.4	6432.2	6633.0	7031.5	7678.0	7775.4	8339.2	8371.7	7616.0
27.5°	6320.1	6311.2	6393.9	6408.6	6656.6	7066.9	7796.0	7869.8	8599.0	8572.4	7636.6
30°	6473.6	6429.3	6479.5	6653.6	6768.8	7270.6	8120.7	8114.8	8935.5	8917.8	7701.6
32.5°	6662.5	6641.8	6674.3	6827.8	7022.6	7542.2	8395.3	8569.4	9277.9	9390.1	7925.9
35°	6697.9	6783.5	6860.3	7066.9	7344.4	7982.0	8911.9	9056.5	9673.5	10024.7	8353.9
37.5°	6922.3	6954.7	7134.8	7500.8	7754.7	8569.4	9239.5	9331.0	10033.6	10432.1	8805.6
40°	7161.4	7199.7	7471.3	7855.1	8203.4	8953.2	9546.5	9576.0	10148.7	10745.0	9100.8
42.5°	7486.1	7521.5	7790.1	8271.3	8737.7	9280.9	9818.1	9850.6	10139.9	11105.1	9570.1
45°	7822.6	7908.2	8224.1	8770.2	9189.3	9664.6	9880.1	10012.9	10222.5	11426.9	9950.9
47.5°	8294.9	8374.6	8634.4	9168.7	9658.7	10001.1	10166.4	10296.3	10420.3	11707.3	10195.9
50°	8796.7	8811.5	9127.4	9611.5	9971.6	10381.9	10700.7	10745.0	10680.1	12032.0	10612.2
52.5°	9165.7	9213.0	9458.0	9930.3	10467.5	10972.3	11409.2	11456.4	11329.5	12153.1	10753.9
55°	8554.7	8528.1	8926.6	9555.4	10801.1	11852.0	12486.6	12522.1	11801.8	12528.0	11217.3
57.5°	6612.3	6739.2	7078.7	7837.4	9596.7	12241.6	13319.1	13192.2	12368.6	12716.9	11512.5
60°	4805.7	4776.2	5003.5	5511.2	7232.2	10550.2	12592.9	12722.8	11905.1	11462.3	9493.4
62.5°	3914.3	3872.9	3890.6	3908.3	4667.0	7002.0	9322.2	9319.2	9168.7	8238.8	6402.7
65°	3129.0	3226.5	3235.3	3368.1	3465.6	4182.9	5402.0	5691.3	4956.3	4064.8	2949.0
67.5°	2358.6	2323.2	2441.2	2913.5	3096.6	3019.8	2949.0	2981.4	2119.5	1529.1	1440.5
70°	1390.4	1375.6	1517.3	2030.9	2550.5	2399.9	2222.8	2225.8	1455.3	1068.6	1189.6
72.5°	761.6	758.6	788.2	1030.2	1449.4	1505.5	1334.3	1375.6	867.9	864.9	929.9
75°	425.1	416.2	407.4	454.6	522.5	552.0	563.8	569.7	596.3	667.1	693.7
77.5°	156.5	150.5	150.5	174.2	221.4	277.5	351.3	357.2	422.1	484.1	510.7
80°	53.1	59.0	79.7	109.2	147.6	197.8	239.1	245.0	298.1	339.5	348.3
82.5°	32.5	35.4	53.1	76.8	106.3	138.7	177.1	180.1	221.4	248.0	259.8
85°	14.8	17.7	29.5	47.2	67.9	91.5	94.5	94.5	91.5	94.5	88.6
87.5°	0.0	0.0	5.9	5.9	5.9	8.9	11.8	8.9	14.8	17.7	17.7
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: P532758

CATALOG NUMBER: GALN-SA8A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6	8926.6
2.5°	8846.9	8814.4	8714.1	8625.5	8599.0	8480.9	8306.7	8327.4	8200.4	8259.5	8197.5
5°	8725.9	8616.7	8359.9	8250.6	7964.3	7834.4	7745.9	7524.5	7421.1	7400.5	7311.9
7.5°	8415.9	8348.0	8026.3	7731.1	7427.0	7167.3	6833.7	6606.4	6444.1	6399.8	6269.9
10°	8170.9	8020.4	7574.6	7125.9	6692.0	6240.4	5806.4	5467.0	5301.7	5109.8	5044.8
12.5°	7928.9	7701.6	7099.4	6523.8	5962.9	5393.2	4867.7	4454.5	4094.3	4008.7	3979.2
15°	7778.3	7382.8	6674.3	5980.6	5183.6	4439.7	3914.3	3642.7	3421.3	3329.8	3394.7
17.5°	7580.5	7120.0	6266.9	5343.0	4466.3	3781.4	3341.6	3173.3	3093.6	3102.5	3075.9
20°	7332.6	6872.1	5732.6	4764.4	3825.7	3279.6	3028.7	2966.7	2978.5	2999.2	2990.3
22.5°	7155.5	6571.0	5345.9	4174.0	3306.2	3002.1	2898.8	2854.5	2892.9	2910.6	2895.8
25°	7019.7	6314.2	4876.6	3651.5	3005.1	2845.7	2798.4	2795.5	2854.5	2878.1	2863.4
27.5°	6895.7	6075.1	4410.2	3253.0	2804.3	2724.6	2709.9	2745.3	2783.7	2807.3	2827.9
30°	6821.9	5892.0	3973.3	2919.5	2704.0	2665.6	2639.0	2671.5	2692.2	2715.8	2704.0
32.5°	6892.7	5762.2	3551.2	2730.5	2621.3	2582.9	2618.4	2597.7	2633.1	2653.8	2621.3
35°	7114.1	5647.0	3250.1	2630.2	2526.8	2541.6	2547.5	2538.7	2553.4	2535.7	2574.1
37.5°	7332.6	5605.7	2972.6	2544.6	2482.6	2482.6	2476.7	2459.0	2488.5	2482.6	2500.3
40°	7610.1	5632.3	2736.4	2453.0	2441.2	2435.3	2411.7	2408.8	2397.0	2399.9	2405.8
42.5°	7852.1	5691.3	2600.6	2394.0	2402.9	2414.7	2370.4	2335.0	2349.7	2320.2	2320.2
45°	8108.9	5744.4	2479.6	2352.7	2343.8	2340.9	2305.5	2284.8	2273.0	2275.9	2302.5
47.5°	8513.4	5821.2	2388.1	2296.6	2302.5	2258.2	2249.4	2222.8	2234.6	2252.3	2255.3
50°	8799.7	5983.6	2317.3	2231.7	2252.3	2222.8	2169.7	2157.9	2157.9	2187.4	2181.5
52.5°	9000.4	6210.9	2249.4	2160.8	2169.7	2146.0	2128.3	2101.8	2084.1	2125.4	2146.0
55°	9614.4	6588.7	2231.7	2101.8	2098.8	2075.2	2042.7	2016.2	2007.3	2013.2	2054.5
57.5°	9555.4	6470.6	2175.6	1998.5	1992.5	1960.1	1927.6	1918.8	1915.8	1921.7	1933.5
60°	7757.7	4779.2	1942.4	1880.4	1871.5	1865.6	1833.1	1797.7	1780.0	1797.7	1783.0
62.5°	5133.4	3199.9	1712.1	1738.7	1744.6	1729.8	1676.7	1641.3	1647.2	1667.8	1635.4
65°	2520.9	1880.4	1552.7	1623.6	1629.5	1588.1	1538.0	1496.6	1476.0	1493.7	1478.9
67.5°	1440.5	1437.6	1422.8	1496.6	1493.7	1452.3	1372.6	1337.2	1301.8	1307.7	1298.8
70°	1222.1	1245.7	1275.2	1319.5	1316.6	1269.3	1174.9	1148.3	1098.1	1092.2	1077.5
72.5°	962.3	1003.7	1068.6	1101.1	1074.5	1015.5	953.5	909.2	864.9	838.3	847.2
75°	714.4	773.4	808.8	829.5	788.2	755.7	705.5	652.4	599.2	575.6	566.8
77.5°	519.5	537.3	569.7	584.5	557.9	525.4	495.9	442.8	392.6	360.1	351.3
80°	363.1	374.9	398.5	398.5	398.5	383.8	345.4	292.2	259.8	230.3	224.3
82.5°	253.9	265.7	289.3	277.5	274.5	256.8	233.2	191.9	156.5	135.8	129.9
85°	88.6	97.4	118.1	141.7	150.5	147.6	132.8	106.3	82.7	67.9	62.0
87.5°	20.7	20.7	23.6	20.7	20.7	23.6	20.7	20.7	20.7	14.8	11.8
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)