

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: P530646

Luminaire Tested: **GALN-SA5D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25698 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

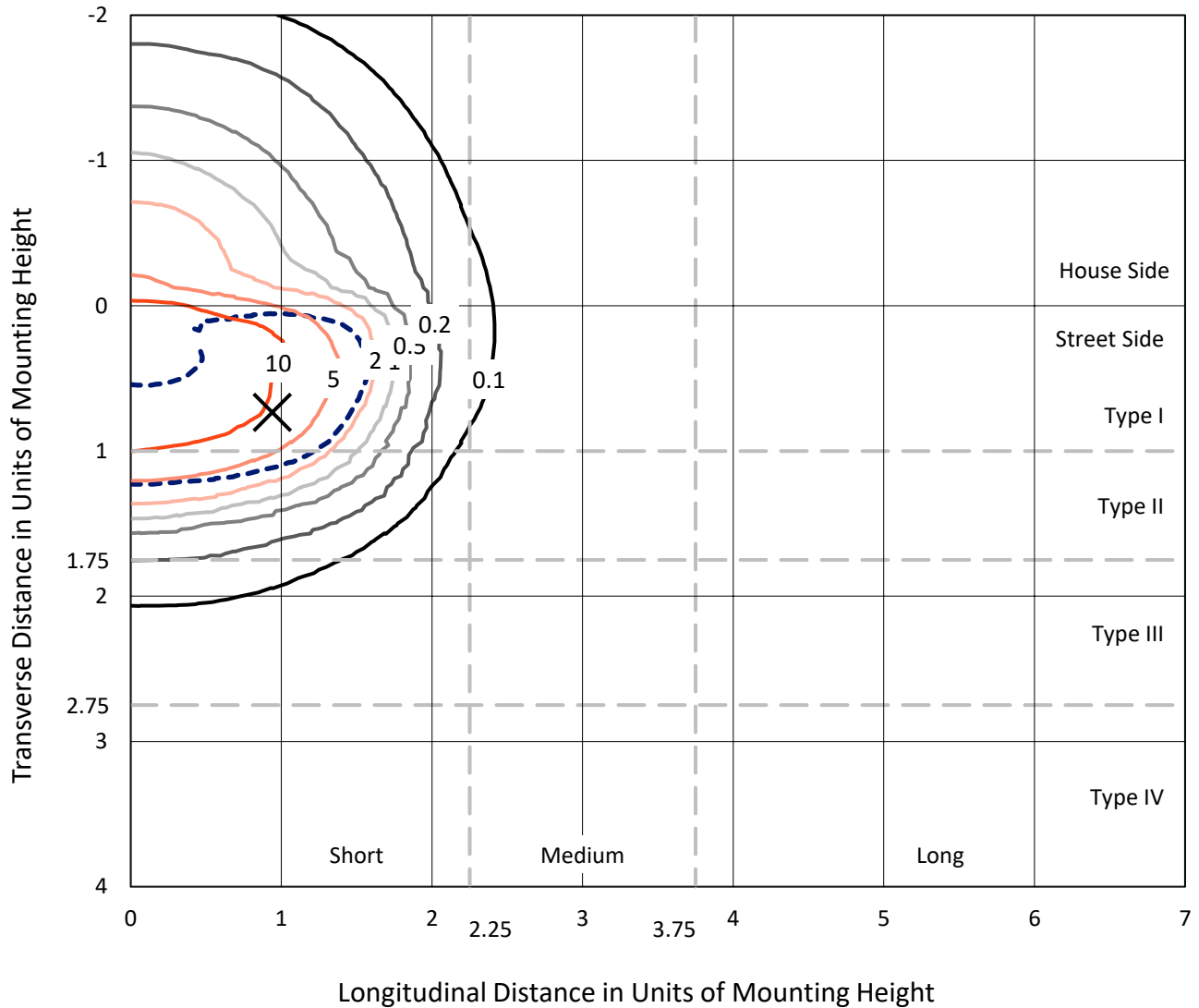
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

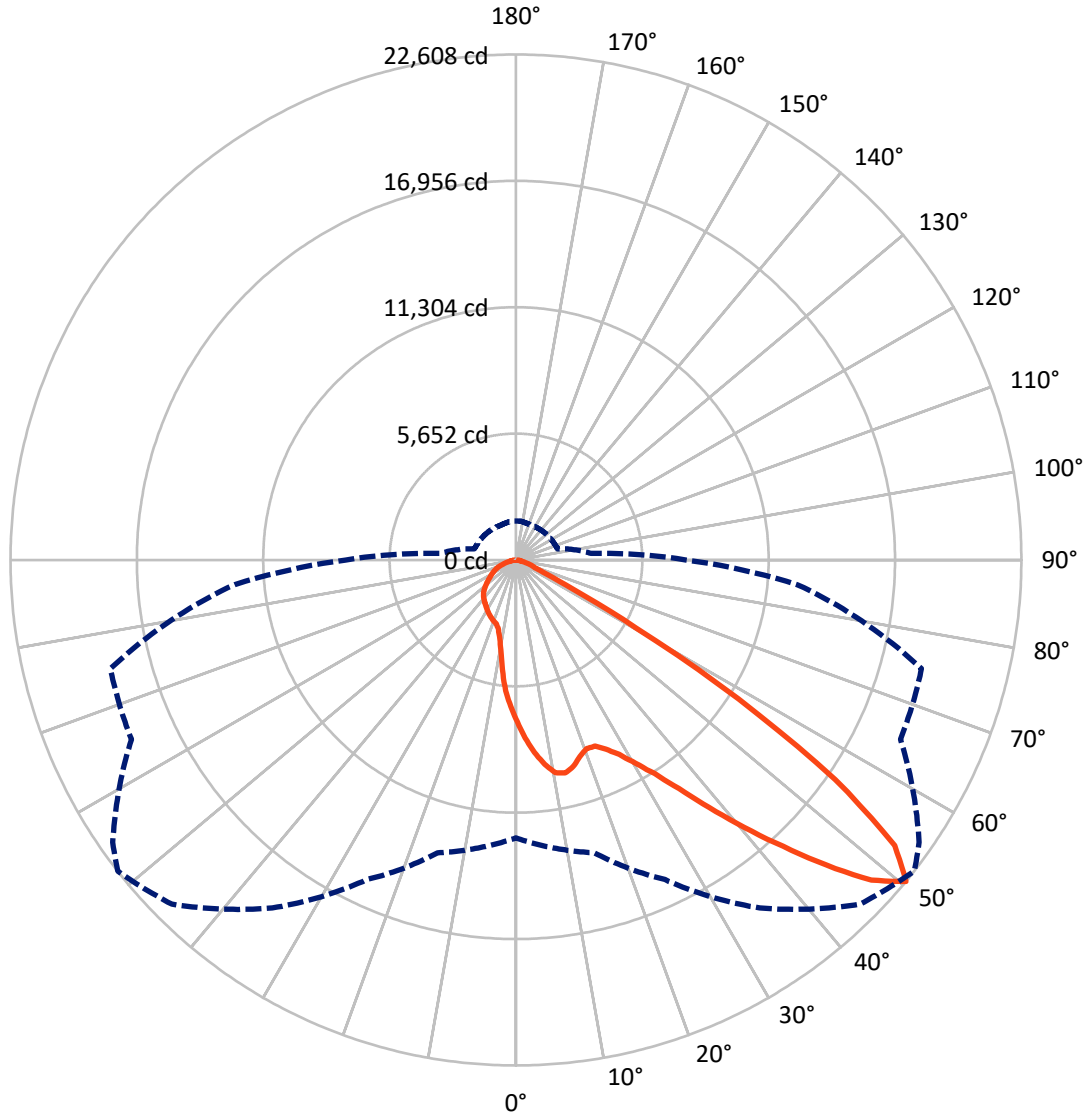
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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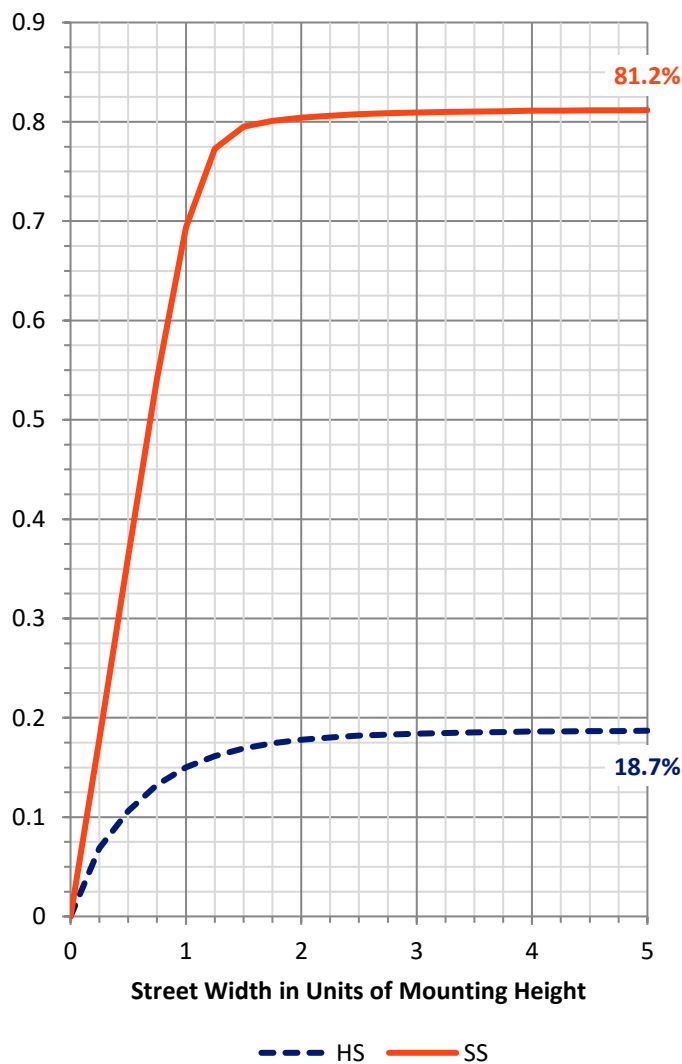
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4830.6	0.0	4830.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20867.4	0.0	20867.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	25698.0	0.0	25698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.7	2.6
10°-20°	1789.5	7.0
20°-30°	3014.3	11.7
30°-40°	5058.3	19.7
40°-50°	7738.0	30.1
50°-60°	5641.6	22.0
60°-70°	1255.5	4.9
70°-80°	452.9	1.8
80°-90°	80.2	0.3
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°	25698.0	100.0
0°-180°	25698.0	100.0

Coefficient of Utilization



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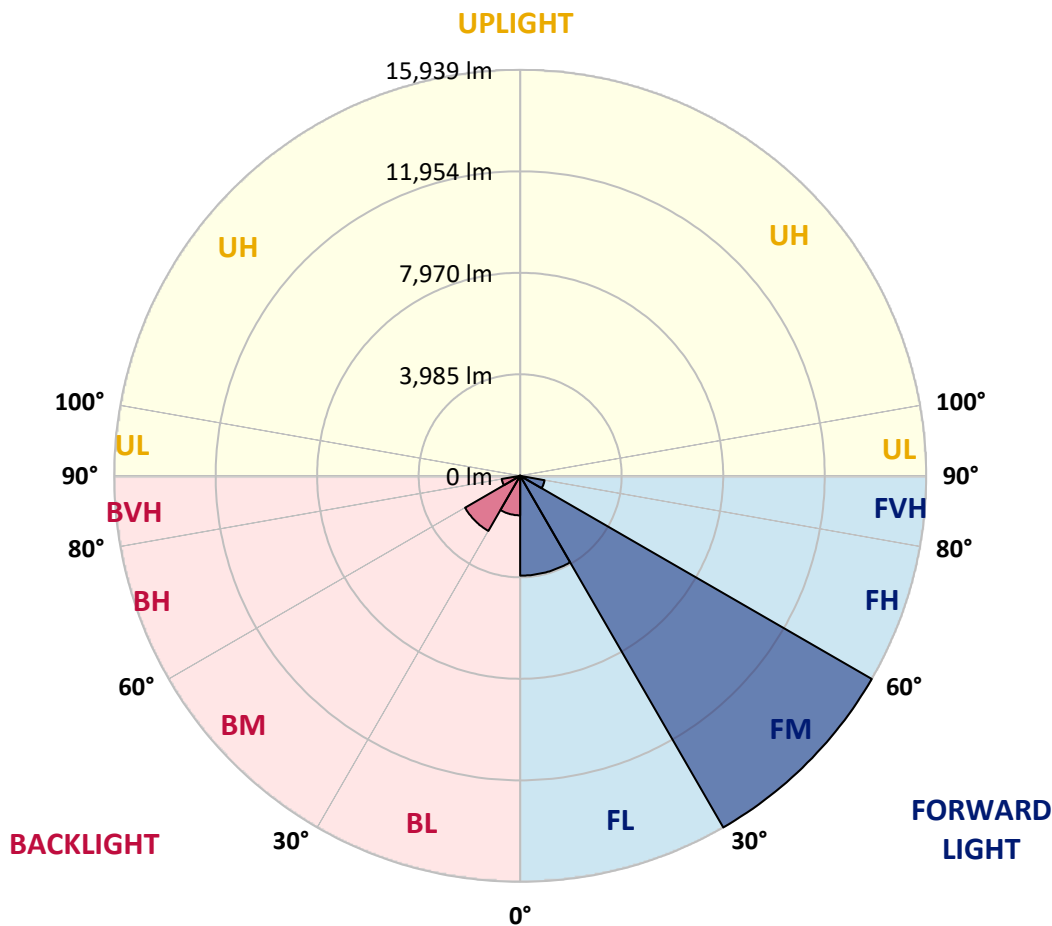
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3919.8	15.3			
FM (30°-60°)	15939.2	62.0			
FH (60°-80°)	972.4	3.8			G1/1800
FVH (80°-90°)	35.9	0.1			G1/100
BL (0°-30°)	1551.7	6.0	B3/2500		
BM (30°-60°)	2498.7	9.7	B2/2500		
BH (60°-80°)	736.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	44.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8
2.5°	8529.1	8364.9	8383.5	8265.8	8138.9	8101.7	7971.6	7847.8	7754.8	7556.6	7373.9
5°	9321.9	9272.4	9198.0	9105.1	9009.1	8773.7	8640.6	8485.7	8145.1	7838.5	7535.0
7.5°	9436.5	9427.2	9467.5	9467.5	9501.5	9411.7	9222.8	9114.4	8752.1	8253.5	7689.8
10°	8631.3	8659.2	8854.3	9108.2	9461.3	9705.9	9675.0	9647.1	9250.7	8569.3	7872.5
12.5°	7990.2	7928.3	8042.9	8259.7	8789.2	9380.8	9780.3	9783.4	9681.2	9074.2	8005.7
15°	7627.9	7671.2	7702.2	7804.4	8203.9	8888.3	9591.4	9798.9	10247.9	9430.3	8216.3
17.5°	7860.1	7714.6	7708.4	7733.2	7937.6	8451.7	9241.4	9597.5	10557.6	9888.7	8476.4
20°	8163.6	8160.5	8073.8	8042.9	8039.8	8498.1	9012.2	9495.3	10721.8	10483.3	8739.7
22.5°	8696.3	8696.3	8553.9	8485.7	8340.2	8714.9	9043.2	9371.5	10994.3	10892.1	8866.7
25°	9588.3	9442.7	9198.0	9030.8	8947.2	9080.4	9371.5	9665.7	11232.8	11325.7	9129.9
27.5°	10412.1	10182.9	10062.1	9774.1	9662.6	9585.2	9851.5	10148.8	11511.5	12000.8	9272.4
30°	11347.3	11307.1	11090.3	10718.7	10443.0	10300.6	10545.2	10839.4	12022.5	12691.4	9600.6
32.5°	13019.7	12654.3	12360.1	11904.8	11455.7	11152.2	11393.8	11588.9	12871.1	13413.0	9959.9
35°	14825.3	14707.6	14199.7	13379.0	12691.4	12418.9	12561.4	12706.9	13859.0	14515.6	10563.8
37.5°	16599.8	16438.8	16020.7	15330.1	14493.9	13939.5	14041.7	14212.0	14967.7	16002.1	11300.9
40°	17875.8	17677.6	17467.0	17364.8	16534.8	15776.0	15717.2	15760.5	16466.7	17395.7	12118.5
42.5°	17968.7	18213.3	18278.4	18690.3	18495.2	17872.7	17510.3	17519.6	17897.5	18773.9	12945.4
45°	17773.6	17547.5	18027.5	19151.7	19795.9	20087.0	19476.9	19399.5	18783.2	19572.9	13357.3
47.5°	15726.5	15788.4	16599.8	18377.5	20238.8	21539.5	21397.0	21140.0	19257.0	19545.1	13292.2
50°	12431.3	12806.0	13558.6	15772.9	19000.0	21768.7	22608.0	22013.3	18975.2	18777.0	12629.5
52.5°	8278.2	8433.1	8928.6	11787.1	15277.4	19458.3	21214.3	21350.6	18715.1	17770.5	11790.2
55°	3685.4	3673.0	4369.8	6156.8	9585.2	14806.7	17333.8	18163.8	17714.7	16745.4	10972.6
57.5°	1560.9	1613.5	1898.4	2660.3	4713.6	8934.8	11743.8	12471.5	13623.6	13750.6	8417.6
60°	1056.1	1062.3	1139.7	1331.7	1972.8	4196.4	6159.9	7033.2	7857.0	7801.3	4465.8
62.5°	830.0	851.7	910.5	987.9	1170.7	1904.6	2756.3	3242.5	3295.2	2771.8	1694.0
65°	709.2	712.3	771.1	836.2	916.7	1108.7	1328.6	1353.4	1368.9	1319.3	1245.0
67.5°	585.3	591.5	638.0	712.3	786.6	848.6	910.5	941.5	1012.7	1152.1	1133.5
70°	464.5	473.8	514.1	576.0	644.2	681.3	758.8	786.6	851.7	960.1	1003.4
72.5°	353.1	356.2	390.2	433.6	495.5	532.7	597.7	628.7	672.0	765.0	805.2
75°	254.0	263.2	288.0	309.7	319.0	343.8	405.7	439.8	501.7	542.0	545.1
77.5°	133.2	139.4	145.6	145.6	176.5	223.0	263.2	281.8	325.2	356.2	340.7
80°	52.6	55.7	71.2	96.0	123.9	161.0	188.9	198.2	235.4	254.0	263.2
82.5°	31.0	34.1	46.5	68.1	89.8	114.6	136.3	145.6	170.3	192.0	198.2
85°	15.5	18.6	27.9	43.4	58.8	71.2	68.1	65.0	65.0	61.9	65.0
87.5°	6.2	6.2	9.3	9.3	9.3	12.4	15.5	15.5	15.5	18.6	18.6
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°	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8	7243.8
2.5°	7253.1	7129.3	7014.7	6804.1	6574.9	6509.9	6243.5	6147.5	6079.4	5998.9	5974.1
5°	7290.3	7126.2	6757.6	6333.3	5995.8	5562.2	5277.3	4970.7	4747.7	4691.9	4676.4
7.5°	7367.7	7085.9	6451.0	5809.9	5119.3	4530.9	4081.8	3840.3	3626.6	3614.2	3592.5
10°	7454.4	6965.1	6116.5	5110.0	4227.4	3682.3	3412.9	3307.6	3254.9	3242.5	3236.3
12.5°	7525.7	6940.3	5741.8	4428.7	3595.6	3267.3	3186.8	3177.5	3199.2	3205.4	3217.8
15°	7556.6	6841.2	5289.6	3818.6	3202.3	3081.5	3115.6	3152.7	3168.2	3208.5	3177.5
17.5°	7615.5	6714.3	4732.2	3335.4	2982.4	3004.1	3062.9	3106.3	3131.0	3158.9	3118.7
20°	7646.4	6599.7	4208.8	3047.4	2905.0	2945.2	3025.8	3059.8	3090.8	3103.2	3056.7
22.5°	7618.6	6364.3	3747.3	2815.2	2830.6	2883.3	2954.5	2991.7	2973.1	2923.6	2895.7
25°	7544.2	6032.9	3267.3	2666.5	2725.3	2818.3	2874.0	2846.1	2812.1	2784.2	2774.9
27.5°	7541.2	5627.2	2920.5	2530.2	2635.5	2762.5	2743.9	2719.1	2734.6	2713.0	2688.2
30°	7556.6	5233.9	2635.5	2452.8	2570.5	2632.4	2654.1	2629.3	2647.9	2607.7	2620.0
32.5°	7476.1	4849.9	2449.7	2363.0	2493.1	2490.0	2561.2	2579.8	2536.4	2452.8	2465.2
35°	7510.2	4540.2	2291.8	2322.7	2406.4	2406.4	2462.1	2440.4	2325.8	2276.3	2288.7
37.5°	7745.6	4236.7	2214.3	2267.0	2322.7	2347.5	2328.9	2236.0	2208.1	2208.1	2214.3
40°	7968.5	3976.5	2167.9	2254.6	2245.3	2260.8	2124.5	2133.8	2133.8	2136.9	2121.4
42.5°	8166.7	3800.0	2130.7	2180.3	2195.8	2115.2	2031.6	2022.3	2044.0	2040.9	2028.5
45°	8238.0	3654.4	2078.1	2096.7	2109.0	1975.9	1935.6	1917.0	1941.8	1951.1	1963.5
47.5°	7965.4	3533.7	2019.2	1982.1	1957.3	1870.6	1817.9	1783.9	1814.8	1867.5	1879.9
50°	7615.5	3375.7	1926.3	1855.1	1802.4	1765.3	1728.1	1694.0	1715.7	1752.9	1743.6
52.5°	7098.3	3128.0	1808.6	1734.3	1644.5	1653.8	1619.7	1601.1	1613.5	1613.5	1604.2
55°	6361.2	2570.5	1610.4	1557.8	1483.5	1508.2	1514.4	1489.6	1464.9	1486.6	1468.0
57.5°	4342.0	1814.8	1437.0	1437.0	1362.7	1396.7	1393.6	1334.8	1276.0	1282.2	1269.8
60°	2511.7	1446.3	1325.5	1313.1	1235.7	1263.6	1269.8	1229.5	1139.7	1145.9	1133.5
62.5°	1427.7	1235.7	1158.3	1139.7	1124.2	1149.0	1149.0	1096.3	1018.9	1025.1	1012.7
65°	1214.0	1145.9	1034.4	1031.3	1025.1	1031.3	1006.5	950.8	882.6	854.8	857.9
67.5°	1102.5	1059.2	950.8	922.9	904.3	901.2	854.8	802.1	771.1	746.4	743.3
70°	966.3	932.2	851.7	814.5	795.9	752.6	706.1	672.0	628.7	616.3	628.7
72.5°	765.0	761.9	730.9	690.6	650.4	616.3	576.0	529.6	489.3	480.0	458.4
75°	529.6	535.8	542.0	535.8	501.7	458.4	411.9	374.7	325.2	297.3	291.1
77.5°	346.9	356.2	365.4	353.1	331.4	291.1	260.1	213.7	176.5	154.8	151.8
80°	254.0	266.3	272.5	263.2	238.5	207.5	173.4	136.3	108.4	89.8	89.8
82.5°	195.1	207.5	213.7	198.2	173.4	148.7	123.9	96.0	74.3	58.8	55.7
85°	68.1	65.0	77.4	80.5	96.0	89.8	74.3	55.7	43.4	31.0	27.9
87.5°	18.6	18.6	21.7	21.7	18.6	15.5	15.5	15.5	12.4	9.3	9.3
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)