

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642975

Luminaire Tested: GWS-SA6E-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33577.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

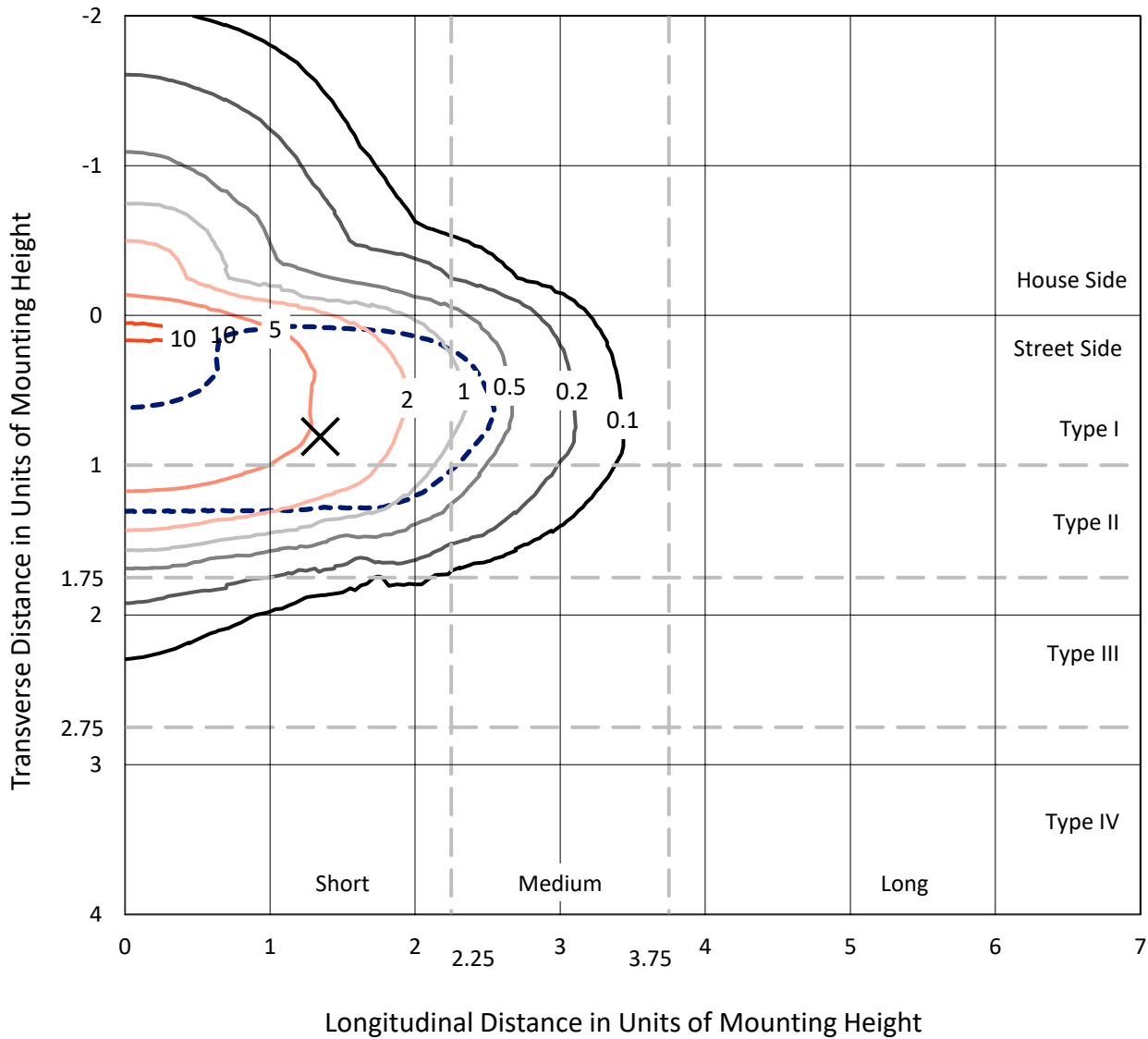
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

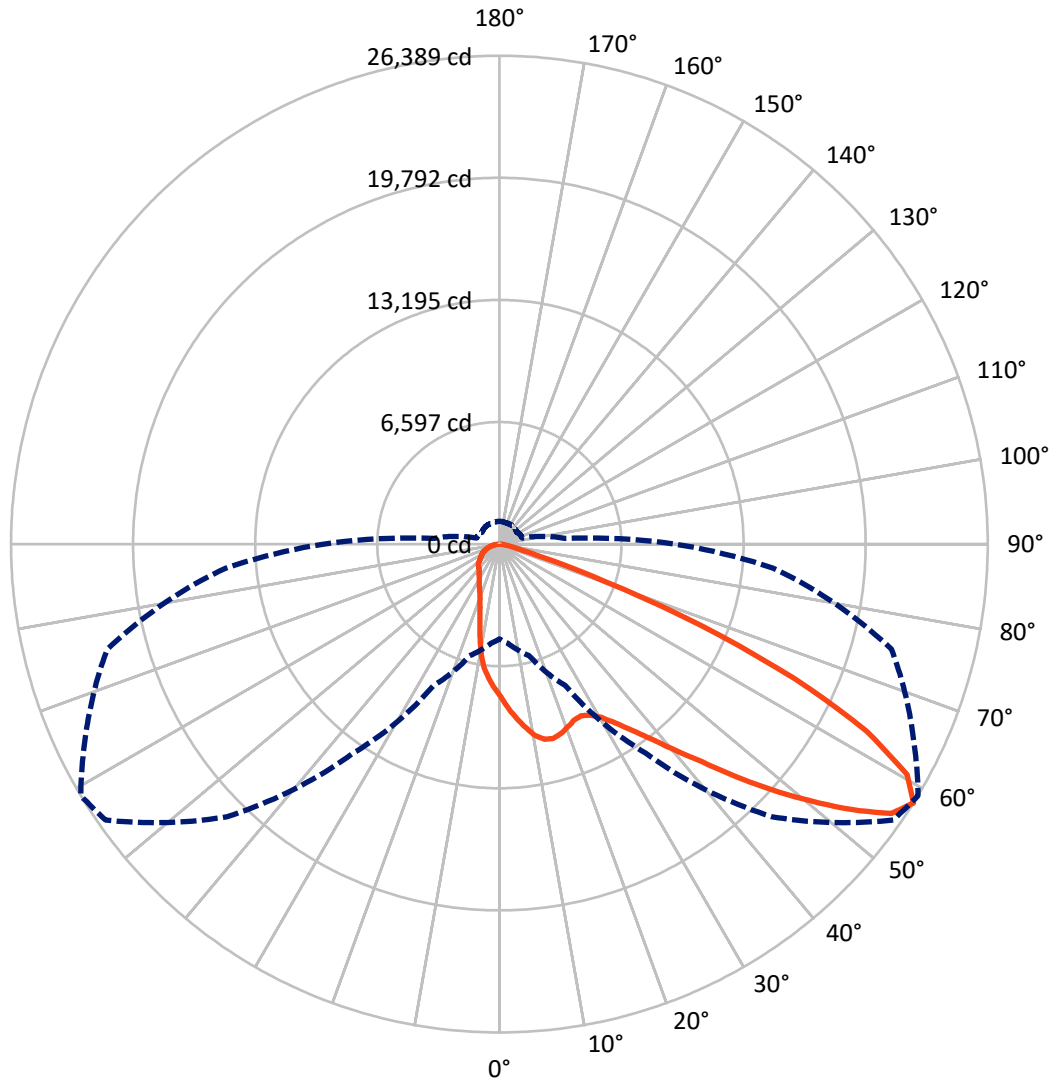
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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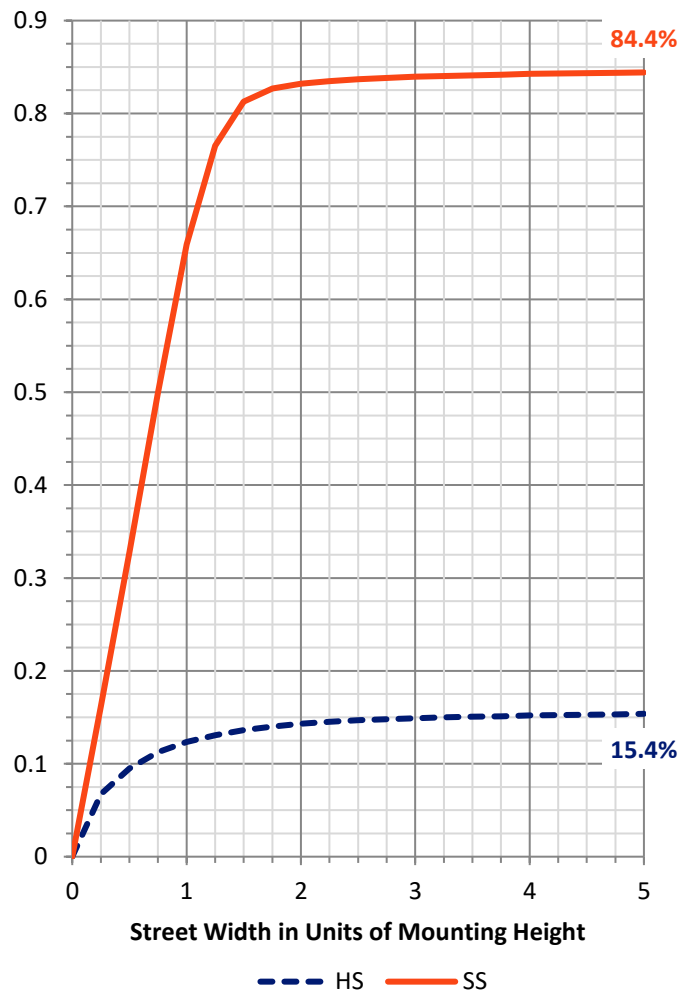
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5211.0	0.0	5211.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	28366.3	0.0	28366.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	33577.3	0.0	33577.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.3	2.3
10°-20°	1939.4	5.8
20°-30°	3143.7	9.4
30°-40°	5057.1	15.1
40°-50°	7853.2	23.4
50°-60°	8458.9	25.2
60°-70°	4909.2	14.6
70°-80°	1281.6	3.8
80°-90°	168.8	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°	33577.3	100.0
0°-180°	33577.3	100.0

Coefficient of Utilization



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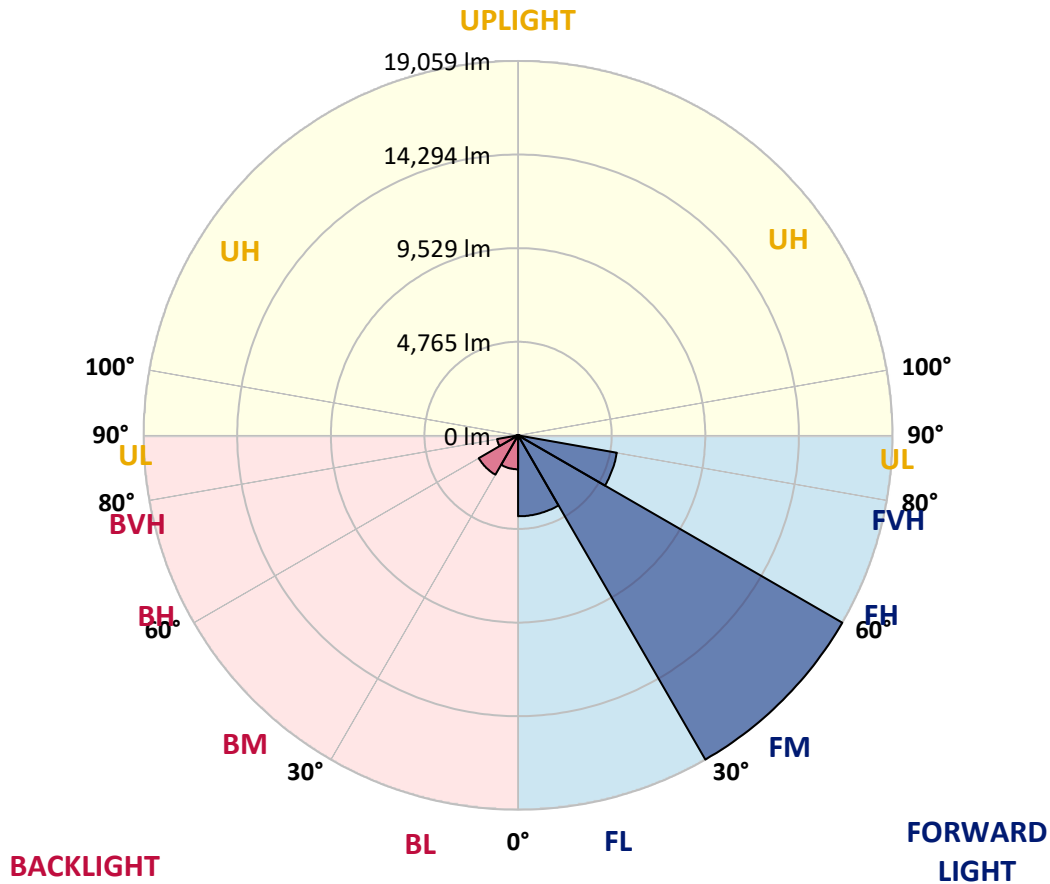
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.6	12.3			
FM (30°-60°)	19058.9	56.8			
FH (60°-80°)	5107.0	15.2			G3/7500
FVH (80°-90°)	80.8	0.2			G1/100
BL (0°-30°)	1728.8	5.1	B3/2500		
BM (30°-60°)	2310.4	6.9	B2/2500		
BH (60°-80°)	1083.9	3.2	B3/2500		G3/2500
BVH (80°-90°)	88.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6
2.5°	9348.8	9270.8	9325.2	9228.3	9188.1	9081.7	8944.6	8852.4	8710.6	8526.2	8365.5
5°	10277.8	10223.4	10235.2	10131.2	10039.0	9861.8	9580.5	9424.5	9183.3	8812.2	8467.1
7.5°	10249.4	10313.2	10348.7	10438.5	10464.5	10448.0	10195.1	9977.6	9712.8	9155.0	8634.9
10°	9188.1	9308.6	9417.4	9724.7	10098.1	10570.9	10630.0	10500.0	10232.9	9592.3	8835.9
12.5°	8032.2	8124.4	8221.3	8590.0	9162.1	10107.6	10748.2	10828.5	10722.2	10024.9	9062.8
15°	7464.9	7507.4	7599.6	7843.1	8299.3	9348.8	10542.5	10894.7	11086.2	10483.4	9318.1
17.5°	7441.2	7460.1	7505.1	7635.1	7951.8	8762.6	10171.4	10762.4	11372.2	10968.0	9615.9
20°	7930.5	7880.9	7852.5	7850.2	8006.2	8566.4	9812.1	10549.6	11507.0	11464.4	9935.0
22.5°	8608.9	8625.5	8564.0	8412.7	8393.8	8705.9	9632.5	10334.5	11547.1	11904.1	10230.5
25°	9571.0	9653.7	9471.7	9183.3	9041.5	9110.1	9743.6	10268.3	11542.4	12270.5	10414.9
27.5°	10693.8	10757.6	10573.3	10195.1	9901.9	9736.5	10074.5	10464.5	11582.6	12587.2	10526.0
30°	11972.6	11993.9	11741.0	11343.9	10916.0	10561.4	10625.3	10868.7	11788.2	13003.2	10656.0
32.5°	13535.1	13624.9	13242.0	12613.2	12015.2	11561.3	11365.1	11521.1	12232.6	13494.9	10856.9
35°	15518.3	15549.0	15062.1	14161.5	13315.3	12686.5	12275.2	12357.9	12908.7	14182.8	11159.5
37.5°	17388.1	17418.8	16901.1	16064.4	14854.1	13993.7	13398.0	13360.2	13773.8	15154.3	11653.5
40°	18574.7	18662.2	18430.5	17905.8	16749.9	15589.2	14780.8	14650.8	14908.5	16343.3	12341.4
42.5°	19212.9	19250.8	19246.0	19314.6	18626.7	17473.2	16340.9	16080.9	16253.5	17626.8	13036.3
45°	19217.7	19312.2	19565.1	20224.6	20255.4	19536.8	18312.3	17905.8	17747.4	18919.8	13762.0
47.5°	18357.2	18458.9	19153.8	20451.6	21408.9	21572.0	20673.8	19858.2	19191.7	20033.2	14357.7
50°	15752.3	16007.6	17331.4	19626.6	21635.8	23203.0	22926.5	21820.2	20475.2	20893.6	14731.2
52.5°	13490.2	13480.7	14296.2	17295.9	20687.9	23921.6	25105.9	23838.9	21744.6	21439.6	14825.7
55°	9878.3	9932.7	10767.1	13227.8	18158.7	23226.7	26304.3	25696.8	23200.7	21730.4	14787.9
57.5°	5122.3	5391.8	6247.5	8441.1	13797.5	20834.5	25985.2	26389.4	24680.4	21936.0	14837.5
60°	2588.4	2536.4	2843.6	4030.3	7994.4	16272.4	24018.5	25306.8	24947.5	22096.8	14868.3
62.5°	1727.9	1713.8	1628.7	1867.4	3266.8	9637.2	20475.2	22281.1	23091.9	21718.6	14475.9
65°	1496.3	1467.9	1311.9	1302.5	1586.1	3997.2	15007.7	17515.7	19085.3	20037.9	13537.5
67.5°	1347.4	1304.8	1146.4	1068.4	1139.3	1756.3	8457.7	11748.1	14093.0	16946.1	11481.0
70°	1203.2	1181.9	1023.5	910.1	903.0	1070.8	3115.5	6063.1	8623.1	11561.3	8393.8
72.5°	1077.9	1040.1	905.3	796.6	742.2	758.8	1352.1	2335.4	4462.8	7211.9	5020.7
75°	933.7	905.3	787.1	678.4	612.2	555.5	825.0	1080.3	2035.2	3427.5	2370.9
77.5°	721.0	702.0	621.7	538.9	501.1	413.7	501.1	680.8	940.8	1444.3	1233.9
80°	418.4	430.2	463.3	420.8	368.8	295.5	326.2	392.4	564.9	782.4	699.7
82.5°	210.4	224.6	300.2	243.5	219.8	172.6	193.8	231.7	295.5	432.6	274.2
85°	16.5	16.5	54.4	61.5	75.6	61.5	78.0	94.6	134.7	172.6	92.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.1	11.8	21.3	40.2	26.0
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°	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6	8242.6
2.5°	8256.7	8136.2	7992.0	7873.8	7691.8	7594.9	7472.0	7320.7	7259.2	7230.9	7214.3
5°	8273.3	8060.5	7753.3	7469.6	7155.2	6907.0	6630.4	6342.1	6176.6	6136.4	6108.0
7.5°	8334.7	8036.9	7547.6	7079.6	6495.7	5954.4	5427.3	4904.9	4637.8	4536.1	4526.7
10°	8419.8	8027.5	7339.6	6561.9	5576.2	4720.5	4103.5	3694.6	3522.1	3465.3	3446.4
12.5°	8526.2	8020.4	7065.4	5843.3	4514.8	3706.4	3354.2	3288.0	3311.7	3307.0	3307.0
15°	8660.9	8029.8	6734.5	5030.2	3652.1	3217.1	3224.2	3302.2	3375.5	3387.3	3387.3
17.5°	8807.5	8020.4	6254.6	4214.6	3134.4	3101.3	3210.0	3318.8	3385.0	3394.4	3394.4
20°	8965.9	7975.4	5649.5	3446.4	2907.5	3028.0	3146.2	3231.3	3271.5	3280.9	3280.9
22.5°	9060.4	7847.8	4992.3	2916.9	2763.3	2912.2	2990.2	3077.7	3082.4	3006.7	3004.4
25°	9046.2	7609.1	4243.0	2576.5	2609.6	2739.6	2838.9	2777.5	2701.8	2659.3	2652.2
27.5°	8956.4	7249.8	3479.5	2318.9	2427.6	2574.2	2543.4	2491.4	2472.5	2425.3	2420.5
30°	8843.0	6807.7	2794.0	2118.0	2238.5	2373.3	2326.0	2321.2	2302.3	2250.3	2250.3
32.5°	8734.2	6351.5	2276.3	1969.0	2118.0	2127.4	2193.6	2198.3	2188.9	2099.1	2089.6
35°	8703.5	5895.3	1926.5	1850.9	1999.8	1995.0	2089.6	2087.2	1924.1	1798.8	1796.5
37.5°	8795.7	5432.0	1718.5	1753.9	1836.7	1898.1	1973.8	1836.7	1782.3	1706.7	1701.9
40°	8991.9	5004.2	1612.1	1697.2	1732.7	1822.5	1704.3	1713.8	1699.6	1642.8	1635.7
42.5°	9251.9	4640.1	1553.0	1678.3	1673.6	1697.2	1567.2	1605.0	1626.3	1583.7	1576.7
45°	9502.5	4323.4	1522.3	1607.4	1631.0	1493.9	1467.9	1503.4	1536.5	1519.9	1512.8
47.5°	9686.8	4049.2	1505.7	1510.5	1576.7	1425.4	1382.8	1399.4	1439.6	1446.6	1444.3
50°	9743.6	3815.2	1486.8	1430.1	1415.9	1356.8	1323.7	1319.0	1366.3	1399.4	1404.1
52.5°	9634.8	3607.2	1437.2	1359.2	1290.6	1300.1	1288.3	1264.6	1311.9	1356.8	1361.5
55°	9474.1	3489.0	1359.2	1290.6	1210.3	1248.1	1252.8	1231.5	1262.3	1293.0	1293.0
57.5°	9485.9	3557.5	1283.5	1226.8	1139.3	1189.0	1215.0	1205.5	1205.5	1229.2	1231.5
60°	9563.9	3656.8	1233.9	1146.4	1068.4	1120.4	1179.5	1170.1	1148.8	1179.5	1179.5
62.5°	9339.4	3524.4	1200.8	1068.4	992.8	1054.3	1125.2	1120.4	1096.8	1146.4	1151.2
65°	8677.5	3169.9	1163.0	971.5	917.2	988.1	1049.5	1066.1	1044.8	1111.0	1122.8
67.5°	7273.4	2666.4	1089.7	879.3	841.5	907.7	966.8	990.4	973.9	1051.9	1061.3
70°	5422.5	2158.1	973.9	777.7	749.3	808.4	862.8	872.2	874.6	966.8	976.2
72.5°	3458.2	1678.3	820.2	664.2	643.0	687.9	728.0	765.9	782.4	869.9	867.5
75°	1928.9	1248.1	659.5	562.6	524.8	560.2	607.5	652.4	699.7	827.3	841.5
77.5°	1111.0	877.0	522.4	451.5	406.6	444.4	484.6	548.4	690.2	801.3	787.1
80°	626.4	569.7	394.8	330.9	302.6	330.9	361.7	482.2	543.7	590.9	598.0
82.5°	293.1	319.1	269.5	203.3	203.3	222.2	250.6	373.5	411.3	335.7	293.1
85°	106.4	144.2	132.4	104.0	92.2	89.8	156.0	212.7	132.4	118.2	101.6
87.5°	28.4	40.2	37.8	26.0	14.2	11.8	0.0	0.0	0.0	0.0	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)