

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: P640370

Luminaire Tested: GWS-SA5D-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19009 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

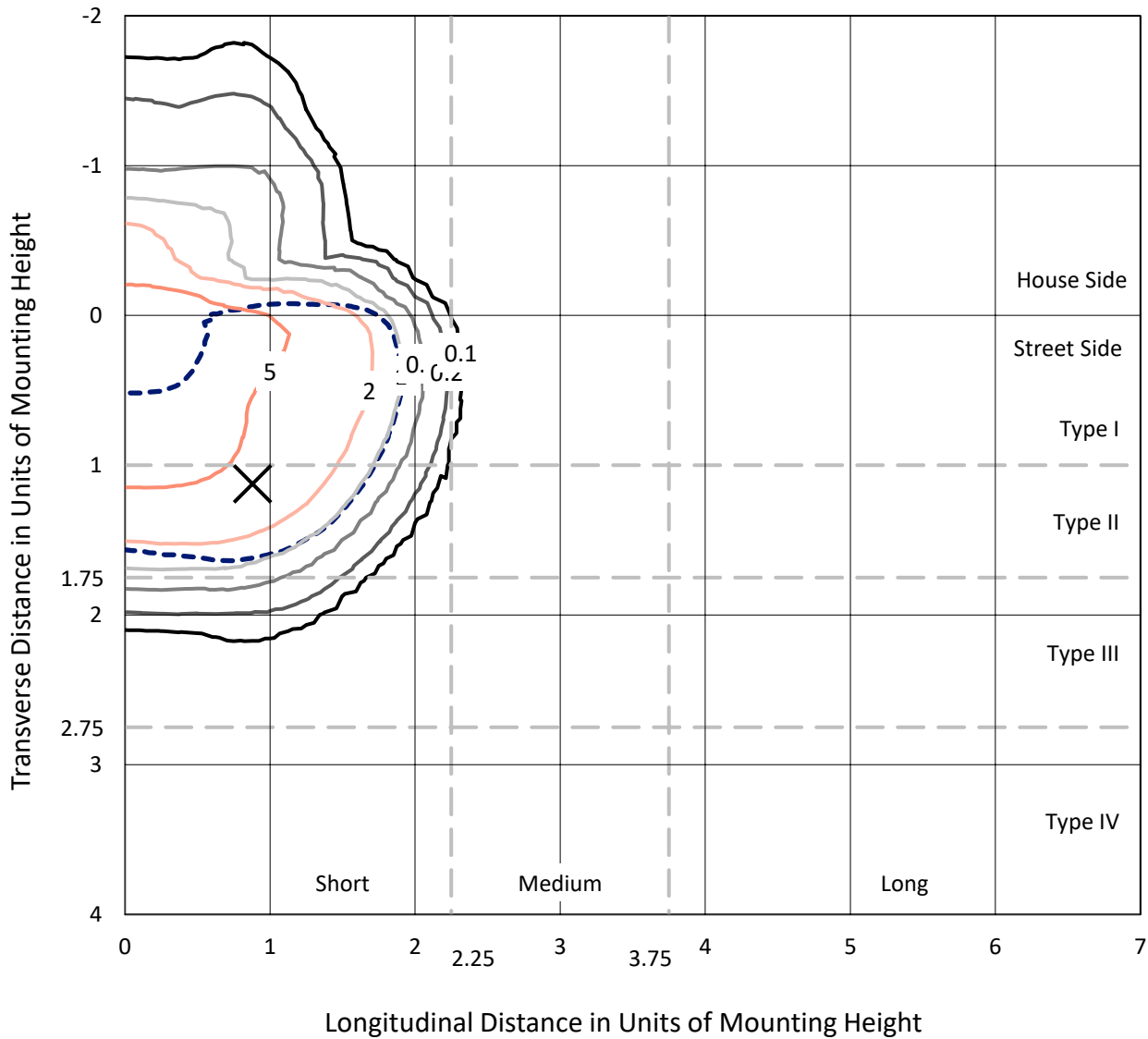
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

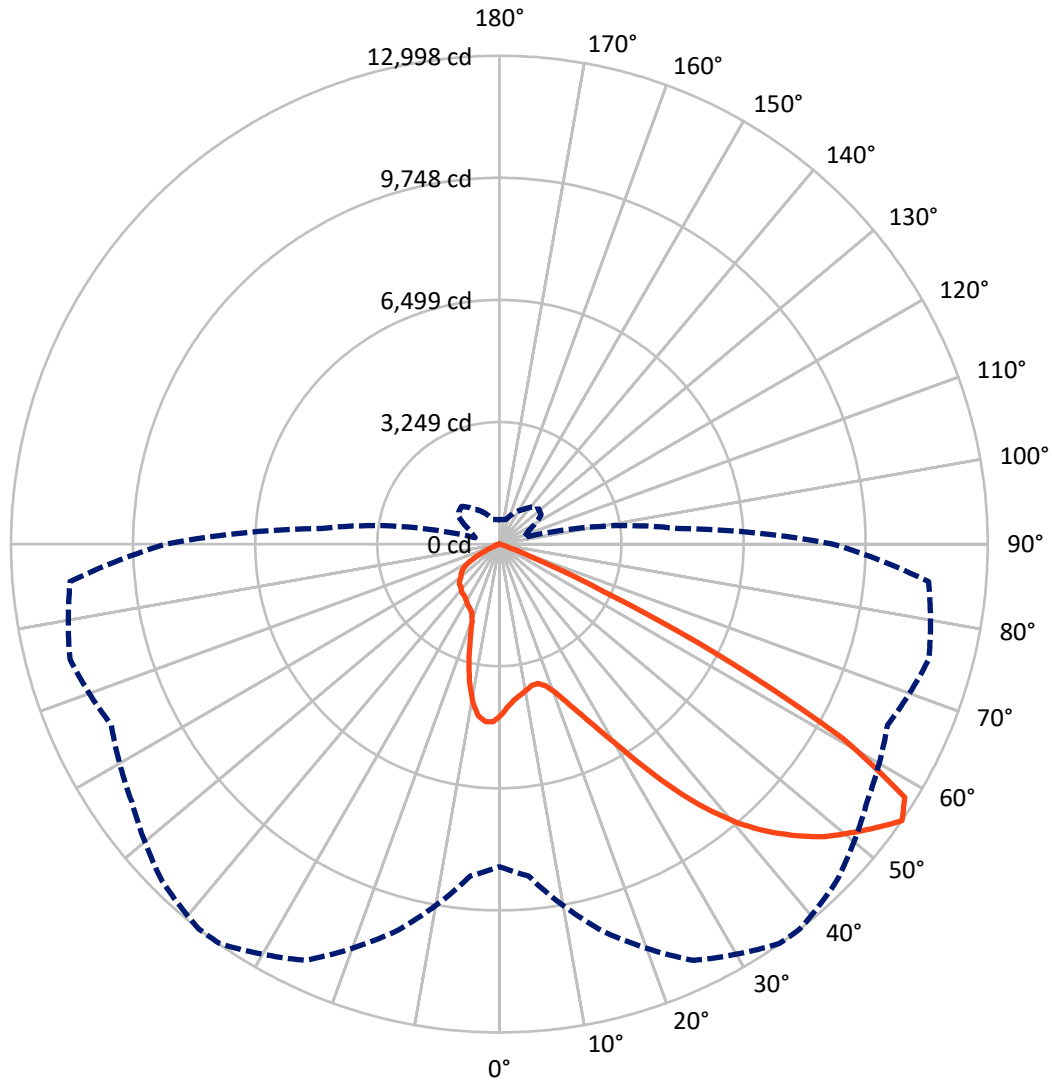
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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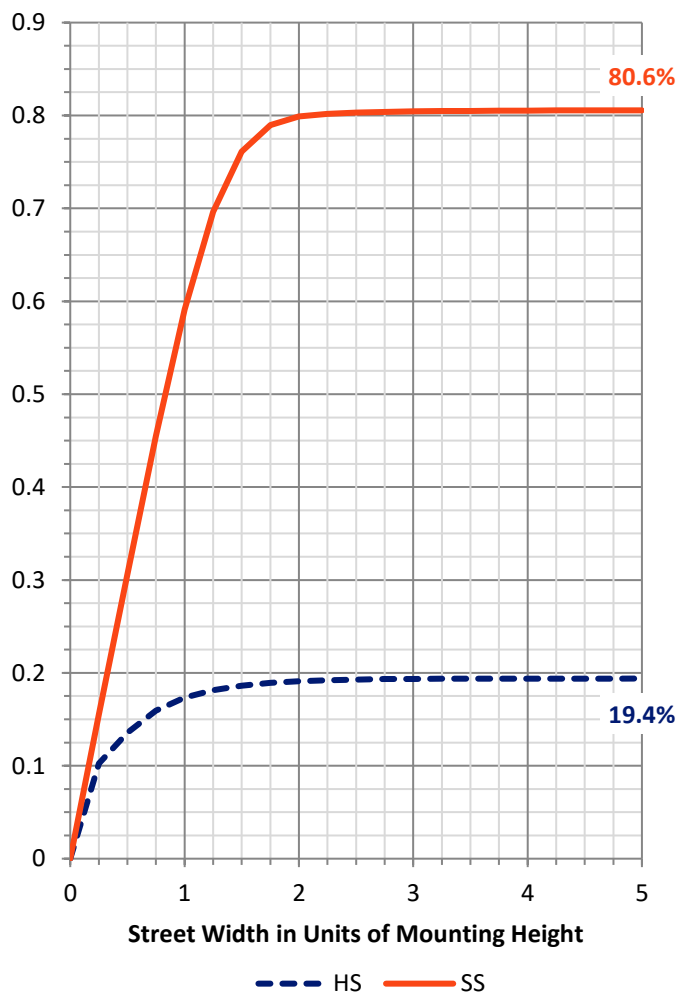
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3703.5	0.0	3703.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15305.4	0.0	15305.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	19009.0	0.0	19009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	2.2
10°-20°	1134.7	6.0
20°-30°	1947.2	10.2
30°-40°	3229.6	17.0
40°-50°	4747.7	25.0
50°-60°	5547.8	29.2
60°-70°	1880.5	9.9
70°-80°	96.1	0.5
80°-90°	3.8	0.0
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°	19009.0	100.0
0°-180°	19009.0	100.0

Coefficient of Utilization



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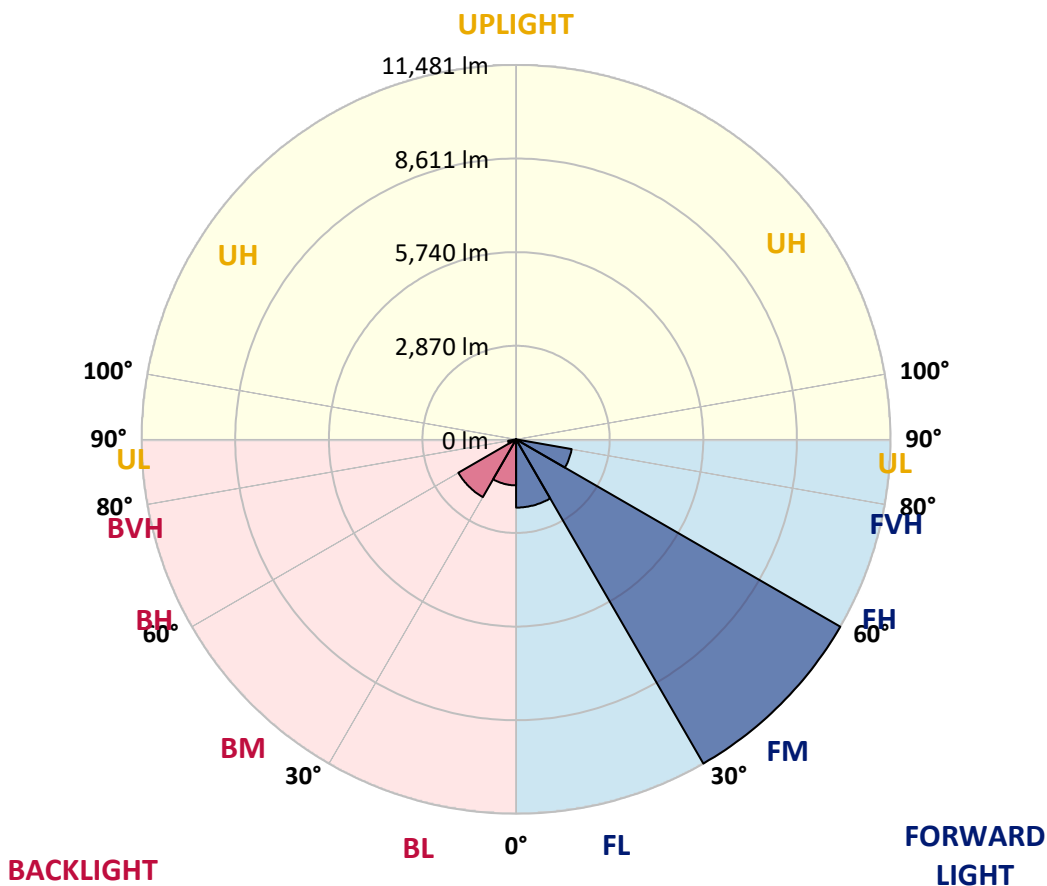
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.4	11.0			
FM (30°-60°)	11480.9	60.4			
FH (60°-80°)	1730.1	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1411.0	7.4	B3/2500		
BM (30°-60°)	2044.2	10.8	B2/2500		
BH (60°-80°)	246.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5
2.5°	4245.6	4236.9	4254.3	4289.1	4321.7	4332.5	4365.1	4410.8	4439.0	4506.4	4560.7
5°	4054.4	4050.1	4067.5	4097.9	4141.3	4156.5	4206.5	4282.6	4358.6	4475.9	4591.1
7.5°	3880.6	3878.4	3904.5	3971.9	4034.9	4054.4	4115.3	4208.7	4310.8	4491.1	4660.6
10°	3652.5	3654.6	3704.6	3800.2	3915.4	3954.5	4052.2	4187.0	4319.5	4552.0	4786.6
12.5°	3578.6	3582.9	3609.0	3682.9	3808.9	3858.9	3995.8	4200.0	4369.5	4638.9	4949.6
15°	3758.9	3758.9	3737.2	3745.9	3802.4	3848.0	3991.4	4243.4	4454.2	4743.2	5110.4
17.5°	4108.7	4095.7	4041.4	3967.5	3948.0	3963.2	4078.3	4336.9	4573.7	4864.9	5292.9
20°	4582.4	4586.7	4480.3	4326.0	4202.2	4200.0	4269.5	4502.0	4745.4	5010.4	5490.6
22.5°	5156.0	5138.6	4997.4	4786.6	4571.5	4554.2	4582.4	4754.1	4993.1	5240.8	5734.0
25°	5820.9	5812.2	5612.3	5329.8	5045.2	5003.9	5003.9	5173.4	5347.2	5568.8	6025.1
27.5°	6516.2	6516.2	6322.8	5996.9	5618.8	5544.9	5534.1	5734.0	5849.1	5892.6	6270.7
30°	7231.0	7222.3	7031.1	6696.5	6292.4	6216.3	6185.9	6333.7	6416.2	6285.9	6577.0
32.5°	7956.7	7971.9	7778.6	7467.9	7107.2	7057.2	6963.8	6963.8	7031.1	6848.6	7059.4
35°	8736.8	8732.4	8580.3	8369.6	8061.0	8004.5	7850.3	7609.1	7711.2	7630.8	7726.4
37.5°	9425.5	9458.1	9384.3	9227.8	8977.9	8921.5	8667.2	8230.5	8308.7	8434.8	8519.5
40°	10125.2	10151.3	10225.1	10175.2	9860.1	9755.8	9303.9	8586.8	8673.8	9106.1	9349.5
42.5°	10811.8	10824.8	10974.7	11057.3	10635.8	10453.3	9786.2	8804.1	8895.4	9632.0	10057.8
45°	11248.5	11276.8	11524.5	11776.5	11320.2	11070.3	10205.6	9082.2	9121.4	9997.0	10581.5
47.5°	11231.1	11296.3	11761.3	12219.7	11909.0	11639.6	10709.7	9527.7	9462.5	10340.3	10926.9
50°	10881.3	10959.5	11626.6	12354.5	12332.7	12082.9	11270.2	10173.0	9968.7	10644.5	10970.4
52.5°	10155.6	10381.6	11389.7	12371.8	12673.9	12547.8	11963.4	11042.1	10653.2	11081.2	11039.9
55°	8586.8	8865.0	10670.5	12224.1	12982.4	12997.6	12691.2	11948.1	11396.3	11833.0	11468.0
57.5°	6518.4	6740.0	8213.1	10881.3	12471.8	12721.7	12973.7	12426.2	11854.7	12345.8	11567.9
60°	3928.4	4184.8	5143.0	7985.0	10073.0	10498.9	11487.5	11381.0	10692.3	10903.0	9486.4
62.5°	1592.7	1727.4	2374.9	4399.9	6340.2	6737.8	7685.1	7845.9	7676.5	7461.3	5753.5
65°	582.3	636.6	951.7	1818.6	2915.9	3061.5	3561.2	3845.8	4080.5	3474.3	2140.2
67.5°	360.7	395.4	619.2	934.3	1060.3	986.4	1003.8	1197.2	1142.9	706.2	382.4
70°	267.3	295.5	484.5	647.5	428.0	330.3	223.8	239.0	215.1	189.0	186.9
72.5°	184.7	210.8	362.9	382.4	165.1	117.3	82.6	115.2	130.4	128.2	132.5
75°	121.7	141.2	228.1	149.9	41.3	32.6	28.2	60.8	78.2	78.2	80.4
77.5°	71.7	82.6	80.4	30.4	8.7	8.7	6.5	10.9	17.4	19.6	23.9
80°	8.7	6.5	4.3	4.3	4.3	4.3	4.3	4.3	6.5	6.5	6.5
82.5°	2.2	2.2	2.2	4.3	4.3	4.3	4.3	4.3	4.3	6.5	6.5
85°	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5
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°	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5
2.5°	4602.0	4586.7	4649.8	4695.4	4732.3	4749.7	4725.8	4723.6	4723.6	4675.8	4662.8
5°	4656.3	4662.8	4751.9	4791.0	4797.5	4775.8	4721.5	4684.5	4662.8	4612.8	4584.6
7.5°	4760.6	4782.3	4867.0	4860.5	4801.9	4701.9	4558.5	4447.7	4376.0	4297.8	4250.0
10°	4910.5	4951.8	5003.9	4912.7	4725.8	4471.6	4176.1	3965.3	3839.3	3750.2	3695.9
12.5°	5093.0	5134.3	5116.9	4901.8	4512.9	4058.8	3678.5	3374.3	3228.8	3148.4	3091.9
15°	5277.7	5303.8	5190.8	4771.4	4137.0	3526.4	3102.7	2800.7	2622.6	2557.4	2509.6
17.5°	5466.7	5460.2	5203.8	4515.0	3635.1	2926.7	2509.6	2303.2	2253.2	2242.3	2238.0
20°	5664.5	5605.8	5151.7	4147.8	3031.0	2333.6	2096.7	2109.8	2201.0	2244.5	2253.2
22.5°	5890.4	5742.7	5021.3	3650.3	2414.0	1944.6	1968.5	2096.7	2220.6	2279.3	2287.9
25°	6131.6	5868.7	4804.0	3011.5	1903.4	1788.2	1929.4	2077.2	2209.7	2281.4	2290.1
27.5°	6290.2	5899.1	4447.7	2368.3	1633.9	1727.4	1877.3	2018.5	2155.4	2233.6	2244.5
30°	6461.9	5886.1	3963.2	1825.1	1542.7	1675.2	1805.6	1933.8	2059.8	2146.7	2155.4
32.5°	6713.9	5877.4	3372.2	1481.8	1505.7	1633.9	1729.5	1836.0	1922.9	1972.9	1966.4
35°	7044.2	5866.5	2683.4	1336.3	1484.0	1601.3	1677.4	1727.4	1631.8	1601.3	1607.9
37.5°	7467.9	5892.6	2103.3	1275.4	1477.5	1592.7	1657.8	1514.4	1366.7	1310.2	1301.5
40°	7937.2	5960.0	1603.5	1251.5	1499.2	1614.4	1584.0	1347.1	1164.6	1053.8	1029.9
42.5°	8408.7	6033.8	1268.9	1242.8	1536.2	1675.2	1462.3	1225.5	951.7	888.7	880.0
45°	8758.5	6020.8	1097.3	1227.6	1568.8	1710.0	1429.7	1051.6	849.6	821.3	823.5
47.5°	8934.5	5877.4	1003.8	1192.9	1581.8	1675.2	1349.3	979.9	780.0	810.4	836.5
50°	8841.1	5505.8	916.9	1125.5	1553.5	1629.6	1221.1	925.6	745.3	871.3	930.0
52.5°	8728.1	5049.6	821.3	1021.2	1486.2	1566.6	1171.1	910.4	723.5	840.9	884.3
55°	8878.0	4760.6	664.9	860.4	1353.6	1418.8	1132.0	908.2	673.6	654.0	647.5
57.5°	8667.2	4184.8	475.8	619.2	1038.6	1123.3	1103.8	893.0	597.5	595.3	604.0
60°	6698.7	2553.0	325.9	393.3	636.6	717.0	1001.7	853.9	515.0	473.7	475.8
62.5°	3806.7	1086.4	223.8	243.4	325.9	386.8	764.8	775.7	475.8	451.9	475.8
65°	1325.4	388.9	173.8	163.0	180.3	206.4	438.9	599.7	432.4	391.1	395.4
67.5°	273.8	193.4	154.3	134.7	134.7	134.7	223.8	373.7	356.3	310.7	315.1
70°	173.8	165.1	134.7	115.2	110.8	102.1	128.2	206.4	245.5	226.0	228.1
72.5°	128.2	126.0	106.5	93.4	82.6	73.9	80.4	102.1	126.0	130.4	132.5
75°	78.2	80.4	69.5	58.7	52.1	45.6	47.8	47.8	47.8	43.5	47.8
77.5°	23.9	26.1	21.7	17.4	15.2	15.2	15.2	13.0	10.9	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0
82.5°	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0
85°	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	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)