

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: P640798

Luminaire Tested: GWS-SA5E-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

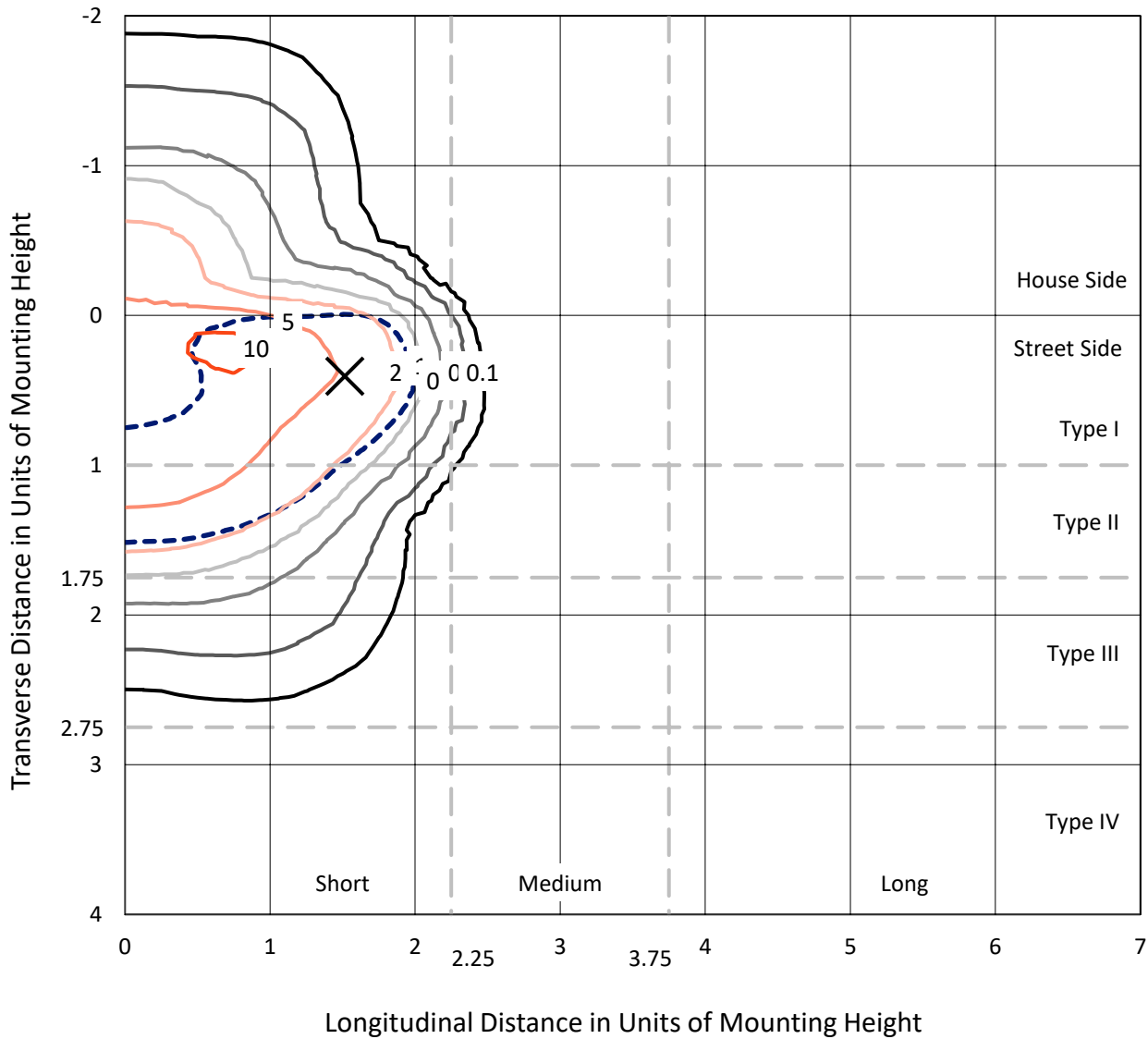
Lumens per Lamp: N/A  
Luminaire Lumens: 22810.1 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

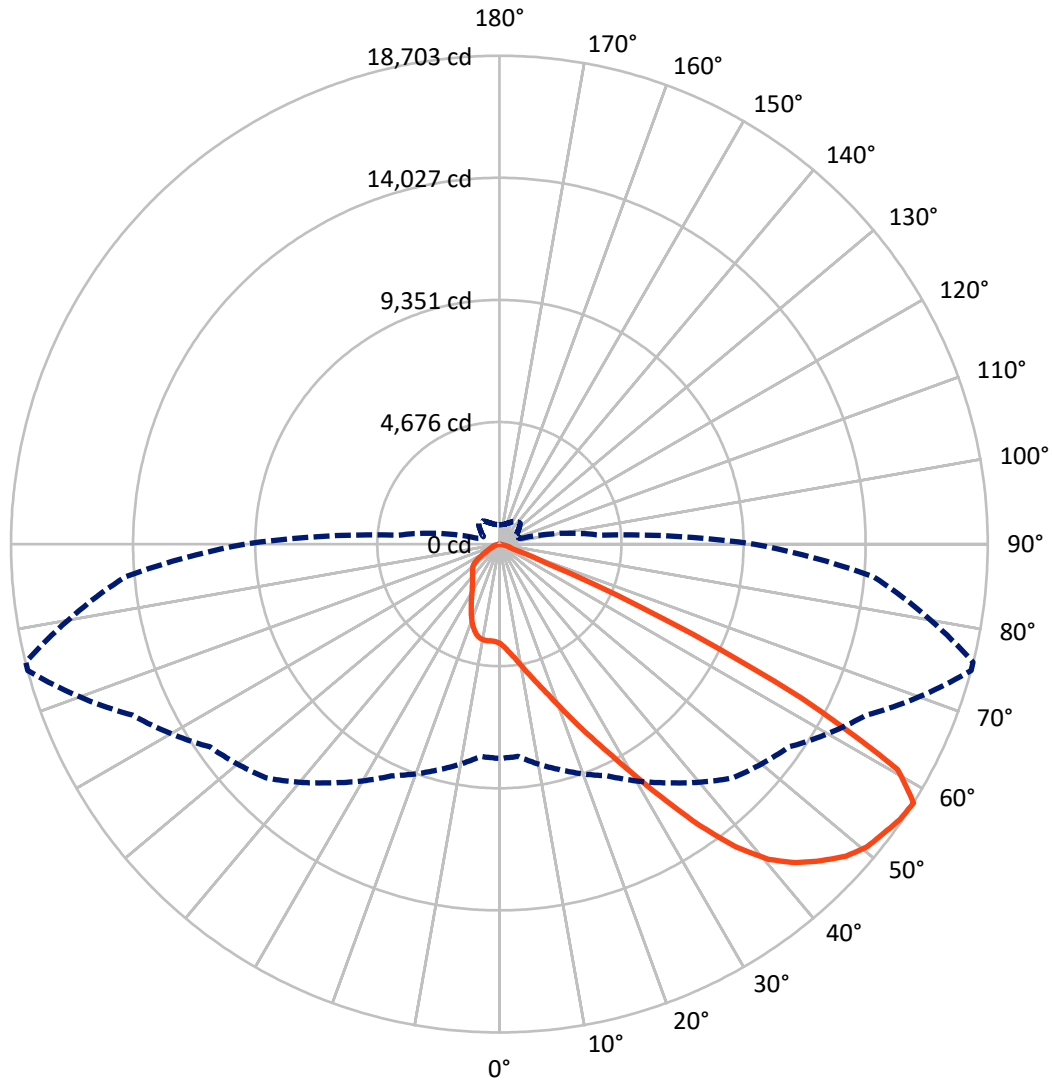
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3726.0	0.0	3726.0
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	19084.1	0.0	19084.1
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	22810.1	0.0	22810.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.1	1.7
10°-20°	1257.6	5.5
20°-30°	2302.9	10.1
30°-40°	3820.7	16.8
40°-50°	5835.2	25.6
50°-60°	6556.8	28.7
60°-70°	2418.4	10.6
70°-80°	231.2	1.0
80°-90°	0.2	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°	22810.1	100.0
0°-180°	22810.1	100.0

**Coefficient of Utilization**



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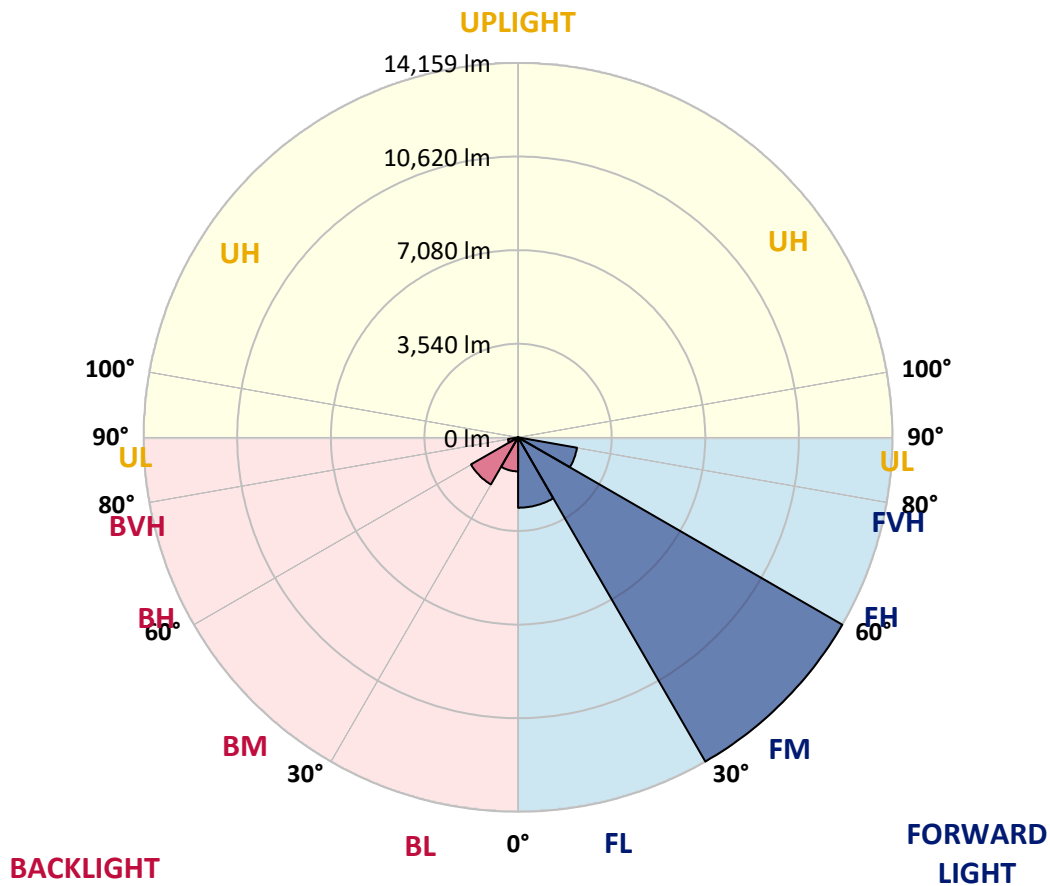
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2661.9	11.7			
FM (30°-60°)	14159.4	62.1			
FH (60°-80°)	2262.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1285.7	5.6	B3/2500		
BM (30°-60°)	2053.3	9.0	B2/2500		
BH (60°-80°)	386.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4
2.5°	4250.4	4294.4	4280.6	4253.1	4236.6	4178.8	4143.0	4038.4	3964.1	3955.8	3887.0
5°	4787.2	4778.9	4767.9	4734.9	4707.3	4616.5	4509.1	4332.9	4176.0	4156.8	4010.9
7.5°	5081.7	5087.2	5092.7	5087.2	5068.0	4999.1	4880.8	4674.3	4434.8	4418.3	4187.1
10°	5202.8	5213.9	5241.4	5293.7	5340.5	5335.0	5266.2	5054.2	4759.6	4732.1	4421.0
12.5°	5260.7	5274.4	5318.5	5417.6	5544.2	5643.3	5654.3	5464.4	5139.5	5095.5	4699.1
15°	5340.5	5354.2	5409.3	5538.7	5723.1	5918.6	6045.2	5924.1	5560.7	5513.9	5004.6
17.5°	5376.3	5395.5	5475.4	5646.0	5885.5	6185.6	6471.9	6460.9	6059.0	6023.2	5359.8
20°	5445.1	5458.9	5530.4	5714.9	6003.9	6436.1	6917.9	7091.3	6667.3	6615.0	5789.2
22.5°	5662.6	5668.1	5701.1	5816.7	6086.5	6617.8	7372.1	7826.3	7385.8	7317.0	6270.9
25°	6017.7	6014.9	6028.7	6048.0	6246.2	6802.2	7809.8	8654.9	8208.9	8134.6	6816.0
27.5°	6469.1	6469.1	6502.2	6447.1	6527.0	7030.7	8242.0	9607.4	9166.9	9062.3	7413.4
30°	7000.4	6997.7	7074.8	6986.7	7011.5	7391.3	8707.2	10645.2	10323.1	10193.7	8101.6
32.5°	7721.7	7705.2	7793.3	7672.1	7589.5	7936.4	9274.3	11729.8	11707.8	11509.6	8966.0
35°	8632.9	8605.3	8632.9	8514.5	8365.8	8698.9	10017.5	12811.7	13243.9	13034.6	9995.5
37.5°	9538.5	9626.6	9656.9	9453.2	9332.1	9665.2	10912.2	13780.7	14711.1	14493.6	11066.4
40°	10606.6	10579.1	10683.7	10455.2	10378.2	10747.0	11787.6	14501.9	15872.8	15666.3	12018.8
42.5°	11394.0	11443.5	11572.9	11446.3	11385.7	11732.5	12522.6	14923.1	16679.4	16475.7	12698.8
45°	12338.2	12374.0	12423.5	12318.9	12255.6	12596.9	13053.9	15107.5	17293.3	17073.0	13155.8
47.5°	13359.5	13387.0	13387.0	13172.3	12968.6	13109.0	13409.0	15212.1	17857.6	17645.6	13494.4
50°	14091.7	14105.5	14226.6	14075.2	13632.0	13414.5	13571.4	15314.0	18232.0	18033.8	13604.5
52.5°	13442.1	13425.5	13824.7	14138.5	14256.9	13824.7	13852.2	15462.6	18413.7	18243.0	13692.6
55°	11319.6	11292.1	11853.7	12616.2	13659.5	14212.8	14190.8	15550.7	18614.6	18510.0	14011.9
57.5°	8206.2	8159.4	8941.2	9789.1	11157.2	12657.5	13538.4	15501.2	18702.7	18694.4	14383.5
60°	4933.1	4894.5	5632.3	6524.2	7581.3	9089.8	10551.6	13885.3	17524.5	17541.0	13417.3
62.5°	3036.4	3072.2	3738.3	4192.6	4586.2	5040.4	5885.5	9340.3	12982.3	13089.7	9428.4
65°	2042.6	2070.1	2686.8	3259.3	3259.3	2664.7	2287.6	4465.1	6926.1	6744.4	4459.6
67.5°	1370.9	1401.2	1888.4	2557.4	2653.7	1858.2	927.7	1332.4	1929.7	1871.9	1103.9
70°	806.6	839.6	1258.0	1753.6	1932.5	1293.8	619.4	564.3	547.8	531.3	429.4
72.5°	360.6	374.4	641.4	891.9	814.8	545.1	437.7	451.5	426.7	418.4	349.6
75°	110.1	115.6	165.2	192.7	195.5	195.5	264.3	355.1	335.8	338.6	269.8
77.5°	27.5	27.5	44.0	41.3	22.0	19.3	49.6	79.8	82.6	74.3	55.1
80°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4
2.5°	3856.7	3785.1	3738.3	3672.3	3625.5	3575.9	3531.9	3496.1	3476.8	3471.3	3474.1
5°	3944.8	3831.9	3721.8	3595.2	3507.1	3424.5	3358.4	3306.1	3281.4	3273.1	3273.1
7.5°	4079.7	3922.8	3727.3	3529.1	3380.5	3251.1	3174.0	3116.2	3094.2	3088.7	3072.2
10°	4255.9	4041.2	3719.1	3410.8	3201.5	3066.6	3011.6	2995.1	3003.3	3006.1	3003.3
12.5°	4467.8	4165.0	3666.8	3237.3	3011.6	2929.0	2934.5	2978.6	3028.1	3052.9	3058.4
15°	4693.6	4277.9	3548.4	3030.9	2849.2	2846.4	2926.3	3028.1	3124.5	3165.8	3176.8
17.5°	4946.8	4368.7	3366.7	2810.6	2708.8	2788.6	2931.8	3088.7	3218.1	3286.9	3300.6
20°	5224.9	4443.1	3135.5	2604.2	2584.9	2728.1	2926.3	3119.0	3278.6	3355.7	3369.5
22.5°	5513.9	4495.4	2868.4	2414.2	2472.0	2659.2	2874.0	3061.1	3212.5	3300.6	3311.7
25°	5844.3	4500.9	2595.9	2254.6	2367.4	2565.6	2747.3	2901.5	3028.1	3105.2	3113.4
27.5°	6133.3	4434.8	2353.7	2125.2	2271.1	2450.0	2571.1	2656.5	2744.6	2788.6	2791.4
30°	6466.4	4319.2	2125.2	2020.6	2172.0	2306.9	2367.4	2386.7	2395.0	2403.2	2392.2
32.5°	6862.8	4178.8	1954.5	1918.7	2059.1	2150.0	2166.5	2127.9	2081.1	2015.1	1998.6
35°	7350.0	4052.2	1814.1	1819.6	1935.2	1990.3	1976.5	1893.9	1803.1	1723.3	1709.5
37.5°	7878.6	3944.8	1706.8	1723.3	1800.3	1838.9	1797.6	1706.8	1665.5	1596.6	1599.4
40°	8346.6	3856.7	1610.4	1626.9	1662.7	1698.5	1632.4	1571.9	1648.9	1643.4	1648.9
42.5°	8679.7	3782.4	1527.8	1519.6	1544.3	1569.1	1519.6	1489.3	1618.7	1582.9	1602.1
45°	8875.1	3713.6	1459.0	1409.4	1448.0	1492.0	1459.0	1420.5	1464.5	1299.3	1285.6
47.5°	9007.3	3675.0	1398.4	1302.1	1370.9	1448.0	1379.2	1285.6	1222.3	1079.1	1068.1
50°	9021.0	3655.8	1326.9	1192.0	1280.1	1362.6	1282.8	1153.4	1062.6	999.3	991.0
52.5°	9092.6	3694.3	1227.8	1051.6	1147.9	1280.1	1225.0	1095.6	971.7	916.7	905.7
55°	9411.9	3856.7	1062.6	858.9	999.3	1216.7	1178.2	977.3	858.9	825.8	817.6
57.5°	9742.3	3889.7	836.9	679.9	869.9	1125.9	1076.4	900.2	784.6	746.0	737.8
60°	8908.1	3204.3	627.6	561.6	768.0	1040.6	996.5	853.4	718.5	671.7	663.4
62.5°	5852.5	1731.5	498.3	476.2	646.9	880.9	908.4	770.8	641.4	591.9	589.1
65°	2697.8	803.8	382.6	377.1	506.5	702.0	781.8	674.4	542.3	498.3	498.3
67.5°	735.0	399.2	300.1	278.0	344.1	470.7	569.8	503.8	385.4	333.1	330.3
70°	366.1	322.1	269.8	239.5	247.8	291.8	335.8	280.8	195.5	159.7	156.9
72.5°	300.1	264.3	228.5	203.7	187.2	178.9	173.4	140.4	90.8	68.8	66.1
75°	223.0	189.9	162.4	132.1	112.9	104.6	93.6	68.8	38.5	22.0	19.3
77.5°	49.6	46.8	44.0	33.0	30.3	24.8	19.3	13.8	5.5	0.0	0.0
80°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)