

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: P383469

Luminaire Tested: **GLEON-SA7D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41852.6 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

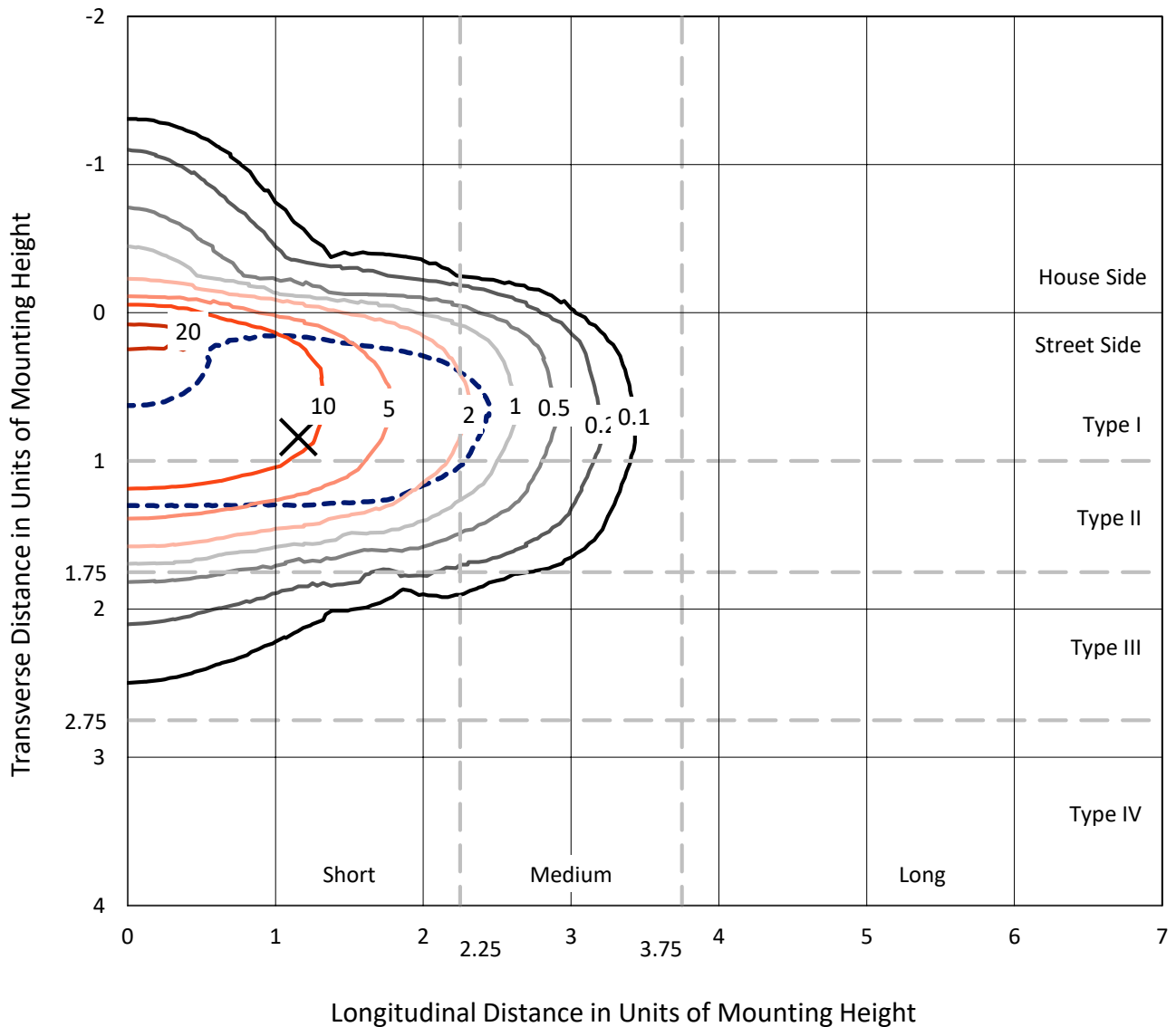
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

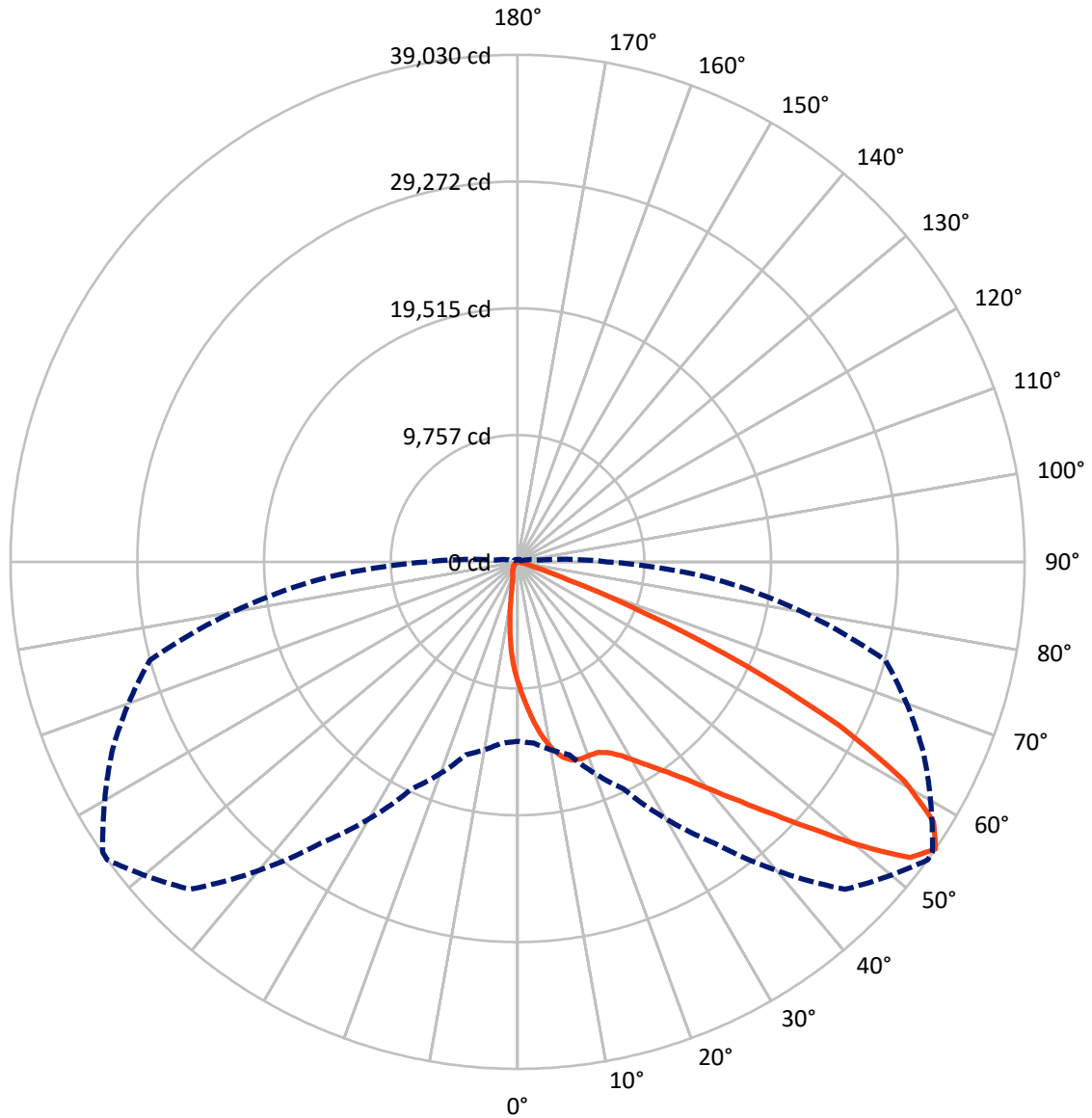
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2088.1	0.0	2088.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39764.4	0.0	39764.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	41852.6	0.0	41852.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.2	2.1
10°-20°	2367.3	5.7
20°-30°	4041.7	9.7
30°-40°	6486.3	15.5
40°-50°	10365.1	24.8
50°-60°	11106.5	26.5
60°-70°	5702.4	13.6
70°-80°	863.8	2.1
80°-90°	56.2	0.1
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°	41852.6	100.0
0°-180°	41852.6	100.0

Coefficient of Utilization



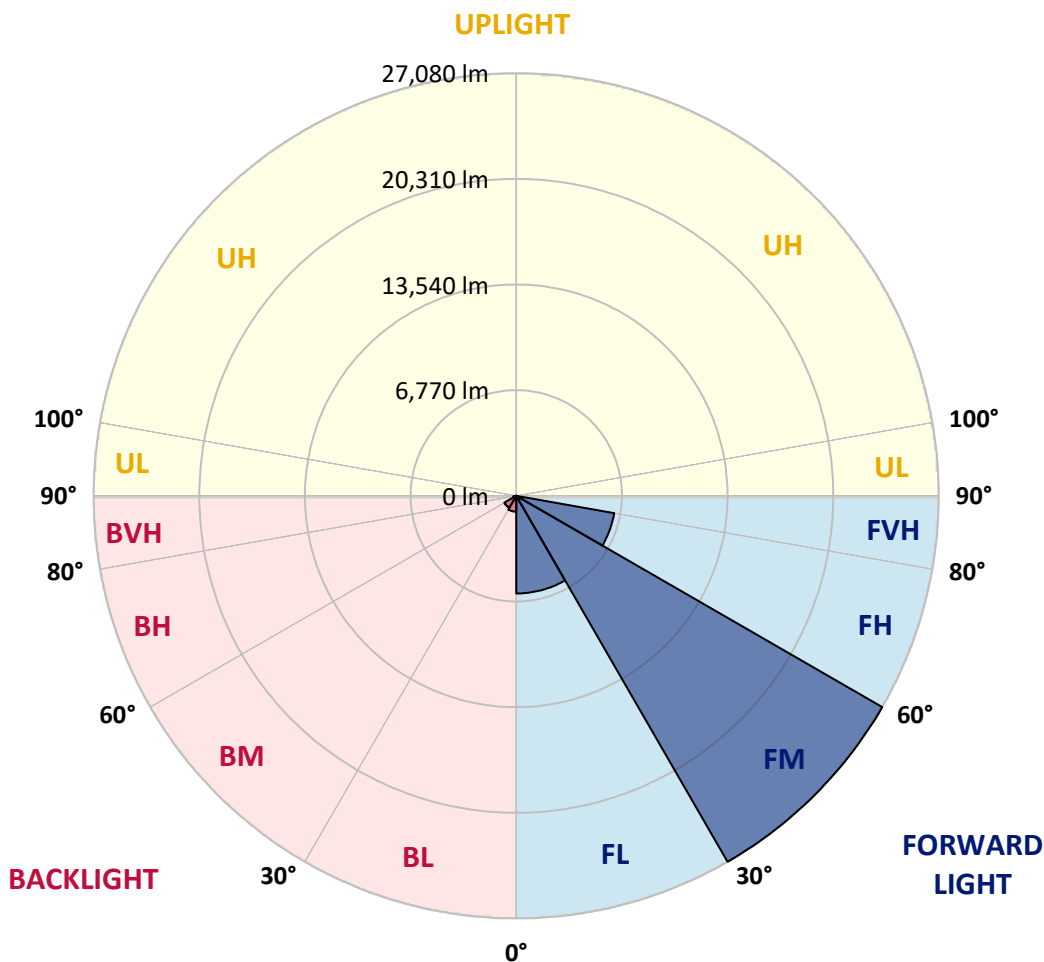
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6256.2	14.9			
FM (30°-60°)	27080.5	64.7			
FH (60°-80°)	6373.8	15.2			G3/7500
FVH (80°-90°)	54.0	0.1			G1/100
BL (0°-30°)	1016.0	2.4	B3/2500		
BM (30°-60°)	877.5	2.1	B1/1000		
BH (60°-80°)	192.4	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3
2.5°	11762.7	11587.4	11592.8	11513.3	11222.3	10994.6	10757.8	10701.7	10333.0	9946.2	9573.9
5°	13796.0	13667.8	13637.0	13483.4	13078.6	12650.1	12191.1	12084.4	11363.3	10571.6	9792.6
7.5°	14840.8	14842.5	14817.3	14761.2	14508.2	14092.5	13532.2	13420.2	12438.7	11251.2	10020.4
10°	14537.1	14605.8	14746.8	14932.9	15126.3	15073.9	14652.8	14551.5	13485.2	11970.6	10273.4
12.5°	13828.6	13837.7	13994.9	14300.4	14857.0	15428.2	15435.4	15401.1	14484.7	12722.4	10551.7
15°	13476.1	13510.5	13568.4	13765.3	14293.1	15207.7	15861.9	15910.7	15401.1	13521.3	10848.2
17.5°	13707.5	13756.3	13707.5	13731.0	14036.5	14858.8	15936.1	16060.7	16201.8	14311.2	11128.3
20°	14334.7	14379.8	14293.1	14197.3	14257.0	14757.6	15883.6	16051.7	16828.9	15012.4	11363.3
22.5°	15180.6	15198.7	15066.7	14909.4	14866.0	15101.0	15927.0	16100.5	17331.3	15646.8	11511.5
25°	16111.4	16127.6	15963.2	15782.4	15679.4	15775.2	16283.1	16413.2	17774.2	16252.3	11596.5
27.5°	17125.3	17139.8	16933.8	16711.4	16592.2	16595.8	16870.5	17009.7	18245.9	16942.8	11665.1
30°	18197.1	18189.9	18000.1	17691.0	17539.3	17535.6	17716.4	17857.3	18929.1	17828.4	11759.1
32.5°	19400.9	19386.4	19117.1	18734.0	18562.2	18587.5	18748.4	18829.7	19776.8	18771.9	11927.2
35°	20986.0	20944.5	20537.7	20062.4	19746.1	19737.1	19872.6	19937.7	20857.6	19914.2	12207.4
37.5°	23042.9	23004.8	22453.7	21763.2	21318.6	21152.3	21313.2	21396.3	22399.4	21380.0	12657.4
40°	25070.7	25032.8	24705.7	24073.1	23388.1	22988.6	23115.1	23203.7	24324.3	23158.6	13224.9
42.5°	26469.7	26502.2	26616.1	26668.5	26026.9	25188.2	25246.1	25338.3	26346.8	25059.9	13873.8
45°	26838.4	26908.9	27552.4	28815.7	29056.1	28401.9	27796.4	27846.9	28401.9	26961.3	14522.6
47.5°	25730.5	25860.6	27102.4	29452.0	31487.1	31949.8	30804.0	30737.1	30373.8	28499.5	14983.6
50°	23212.8	23332.0	24940.6	28416.3	32224.6	35337.0	34407.9	34210.9	32103.5	29419.4	15146.2
52.5°	19568.9	19713.6	21020.4	25155.7	30834.6	36847.9	37820.4	37655.9	33372.2	29491.7	15173.3
55°	13819.6	13994.9	15377.5	19279.8	26430.0	35646.0	39029.5	38980.7	34426.0	29300.2	15231.2
57.5°	7766.5	7893.0	9384.1	12359.1	19357.5	31047.9	37766.2	38089.7	35062.2	28967.6	15317.9
60°	3448.6	3482.9	4254.7	6152.5	11332.6	23727.8	34149.4	34695.3	34516.4	28523.0	15464.3
62.5°	1912.3	1883.3	1883.3	2557.5	4925.2	14688.9	27846.9	28748.9	32186.6	27997.0	15471.5
65°	1498.4	1471.3	1393.5	1404.4	1876.1	6519.3	19283.4	20886.6	27762.0	26455.2	14951.0
67.5°	1270.6	1247.2	1169.4	1138.6	1165.8	2150.9	10595.1	12259.7	21065.6	22448.2	12950.2
70°	1073.6	1057.3	1017.6	979.6	911.0	1062.8	4054.1	5185.5	12980.9	14932.9	8840.1
72.5°	863.9	856.7	871.2	838.7	755.5	708.5	1386.3	1679.1	5830.7	6664.0	3642.0
75°	744.7	741.0	748.3	715.7	621.7	493.4	704.9	769.9	1644.7	1630.3	737.4
77.5°	484.4	489.8	619.9	605.5	535.0	328.9	365.1	394.0	498.8	374.1	224.1
80°	309.1	305.5	314.5	502.5	480.8	251.2	182.6	191.6	240.4	184.4	108.4
82.5°	188.0	184.4	206.1	234.9	242.2	175.3	112.1	113.8	150.0	119.3	57.8
85°	16.3	21.7	124.7	115.7	83.2	54.2	54.2	57.8	79.6	70.5	32.5
87.5°	0.0	0.0	21.7	32.5	18.1	19.8	19.8	21.7	30.7	30.7	16.3
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°	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3	9373.3
2.5°	9380.5	9192.5	8813.0	8447.9	8138.8	7840.6	7500.8	7164.6	7007.4	6944.1	6879.0
5°	9396.8	9010.0	8227.4	7439.3	6622.4	5886.8	5259.6	4616.2	4294.4	4153.5	4088.4
7.5°	9418.5	8829.3	7564.1	6241.0	4925.2	3927.5	3056.3	2496.1	2253.9	2215.9	2121.9
10°	9422.1	8610.6	6794.1	4918.0	3302.1	2367.7	1821.9	1532.7	1426.0	1407.9	1377.3
12.5°	9429.3	8352.1	5939.2	3642.0	2201.4	1583.3	1317.6	1221.8	1192.9	1191.1	1191.1
15°	9451.0	8081.0	5051.8	2624.4	1581.5	1254.3	1156.8	1118.8	1108.0	1113.4	1111.5
17.5°	9451.0	7761.1	4180.6	1955.6	1277.8	1127.8	1073.6	1048.3	1044.7	1050.1	1051.9
20°	9382.4	7372.5	3381.7	1521.9	1133.2	1046.5	997.7	974.2	965.2	968.8	970.6
22.5°	9217.8	6895.3	2731.0	1259.7	1037.5	972.3	920.0	883.9	869.4	871.2	871.2
25°	8961.2	6329.6	2136.4	1089.9	959.8	892.9	831.4	789.9	780.8	779.0	782.6
27.5°	8632.3	5704.2	1700.8	959.8	867.6	804.3	742.8	708.5	701.3	703.1	704.9
30°	8308.8	5055.3	1341.1	849.5	764.5	704.9	657.9	641.6	641.6	647.1	648.8
32.5°	8012.3	4431.8	1060.9	753.7	672.4	618.2	591.1	589.2	598.2	601.9	603.6
35°	7757.5	3855.2	878.4	679.6	600.1	553.1	544.0	551.3	562.1	569.4	571.1
37.5°	7576.7	3340.2	768.2	618.2	544.0	506.1	504.2	518.7	533.2	549.4	553.1
40°	7500.8	2904.6	692.2	564.0	498.8	470.0	464.5	484.4	511.5	535.0	538.6
42.5°	7437.6	2548.4	627.2	511.5	462.7	421.2	419.3	444.6	477.1	500.6	506.1
45°	7383.4	2262.9	567.5	455.4	415.7	361.4	366.9	399.4	424.8	450.0	455.4
47.5°	7271.3	2027.9	502.5	395.8	343.4	309.1	319.9	348.9	368.7	406.7	412.1
50°	7070.6	1836.4	435.6	323.5	280.1	267.5	283.7	303.7	328.9	361.4	365.1
52.5°	6935.1	1691.8	377.7	271.1	231.4	234.9	251.2	258.5	272.9	285.6	282.0
55°	6857.4	1612.2	330.8	234.9	197.0	207.8	211.5	202.4	195.2	182.6	177.1
57.5°	6848.4	1539.9	294.6	204.2	173.5	179.0	166.3	135.5	110.3	95.8	92.2
60°	6833.8	1451.4	265.7	171.7	153.6	146.4	119.3	74.1	52.4	48.8	48.8
62.5°	6676.6	1314.0	244.0	144.6	130.1	110.3	68.7	34.4	28.9	30.7	30.7
65°	6176.0	1122.4	222.3	117.5	103.0	79.6	34.4	19.8	10.8	12.7	12.7
67.5°	5250.6	894.7	198.8	90.4	77.7	50.6	19.8	9.0	0.0	0.0	0.0
70°	3515.5	554.9	168.1	63.3	50.6	30.7	14.4	1.8	0.0	0.0	0.0
72.5°	1348.3	300.1	135.5	37.9	32.5	21.7	9.0	0.0	0.0	0.0	0.0
75°	303.7	197.0	94.0	27.1	23.5	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	115.7	142.8	54.2	18.1	16.3	9.0	0.0	0.0	0.0	0.0	0.0
80°	56.0	85.0	25.3	10.8	9.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	32.5	10.8	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	16.3	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	5.4	1.8	1.8	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)