

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: P383637

Luminaire Tested: **GLEON-SA9B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383637
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-SA9B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 38960.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

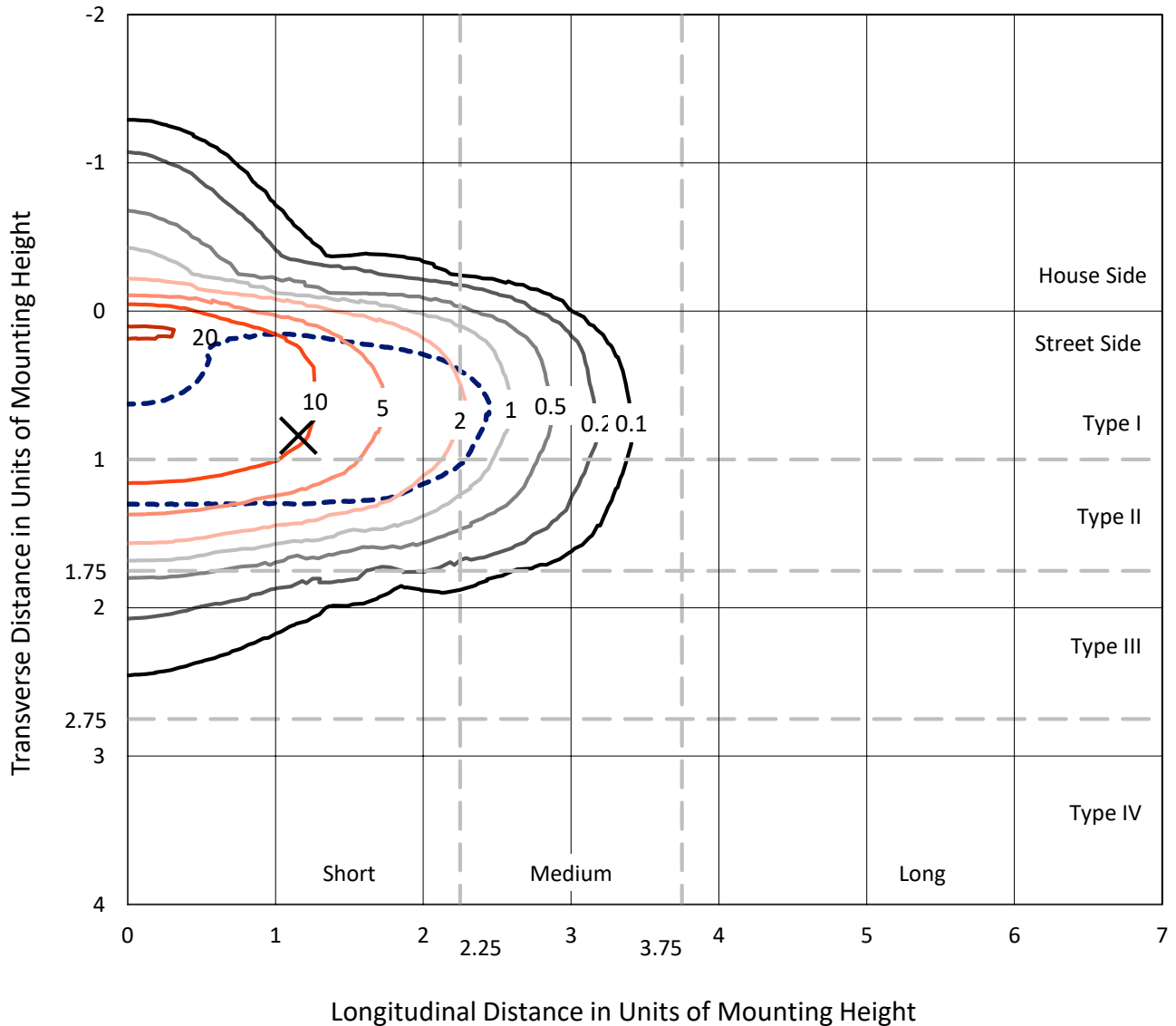
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

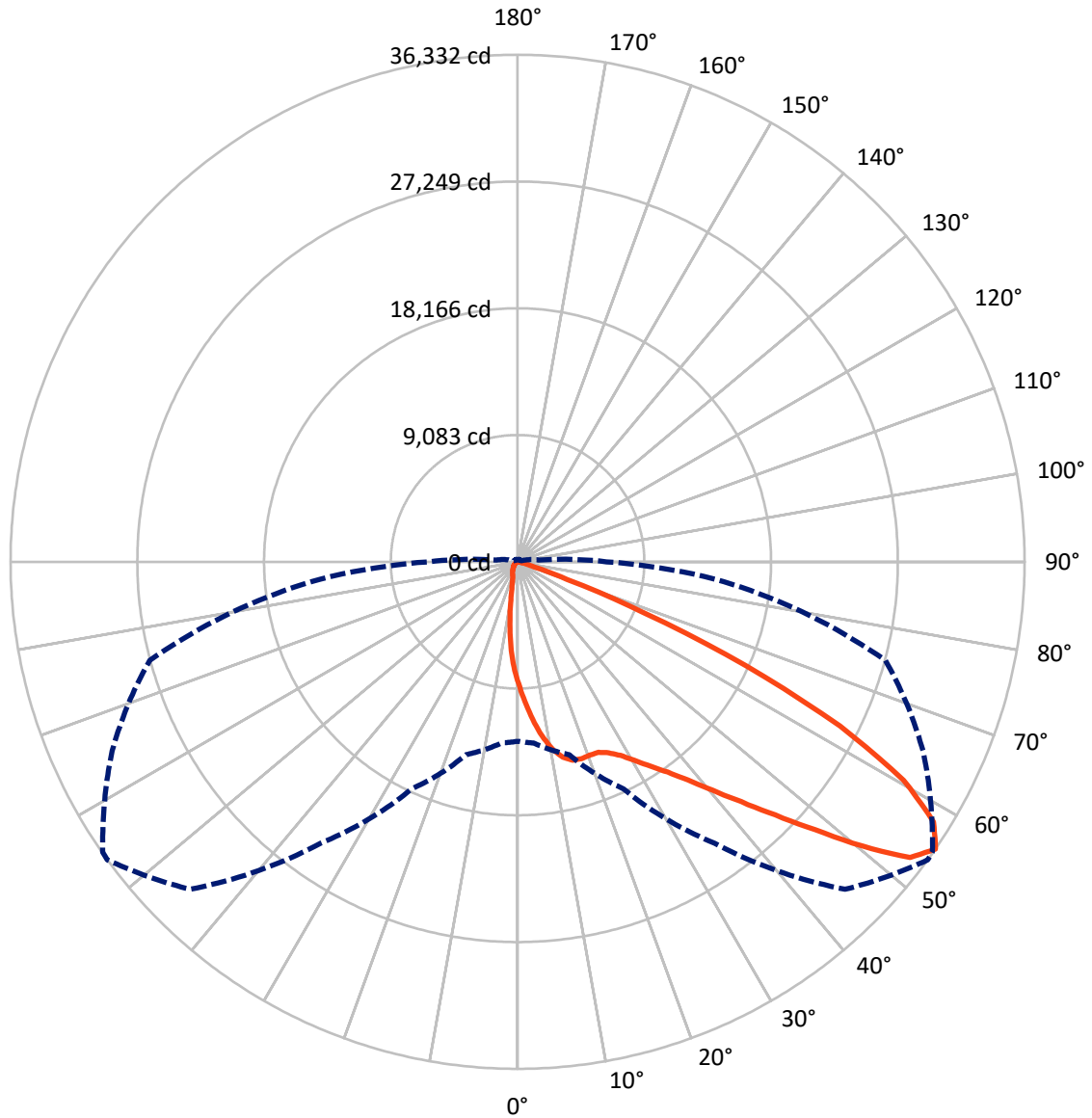
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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	1943.8	0.0	1943.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	37016.3	0.0	37016.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	38960.1	0.0	38960.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.5	2.1
10°-20°	2203.7	5.7
20°-30°	3762.4	9.7
30°-40°	6038.0	15.5
40°-50°	9648.8	24.8
50°-60°	10338.9	26.5
60°-70°	5308.3	13.6
70°-80°	804.1	2.1
80°-90°	52.4	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°	38960.1	100.0
0°-180°	38960.1	100.0



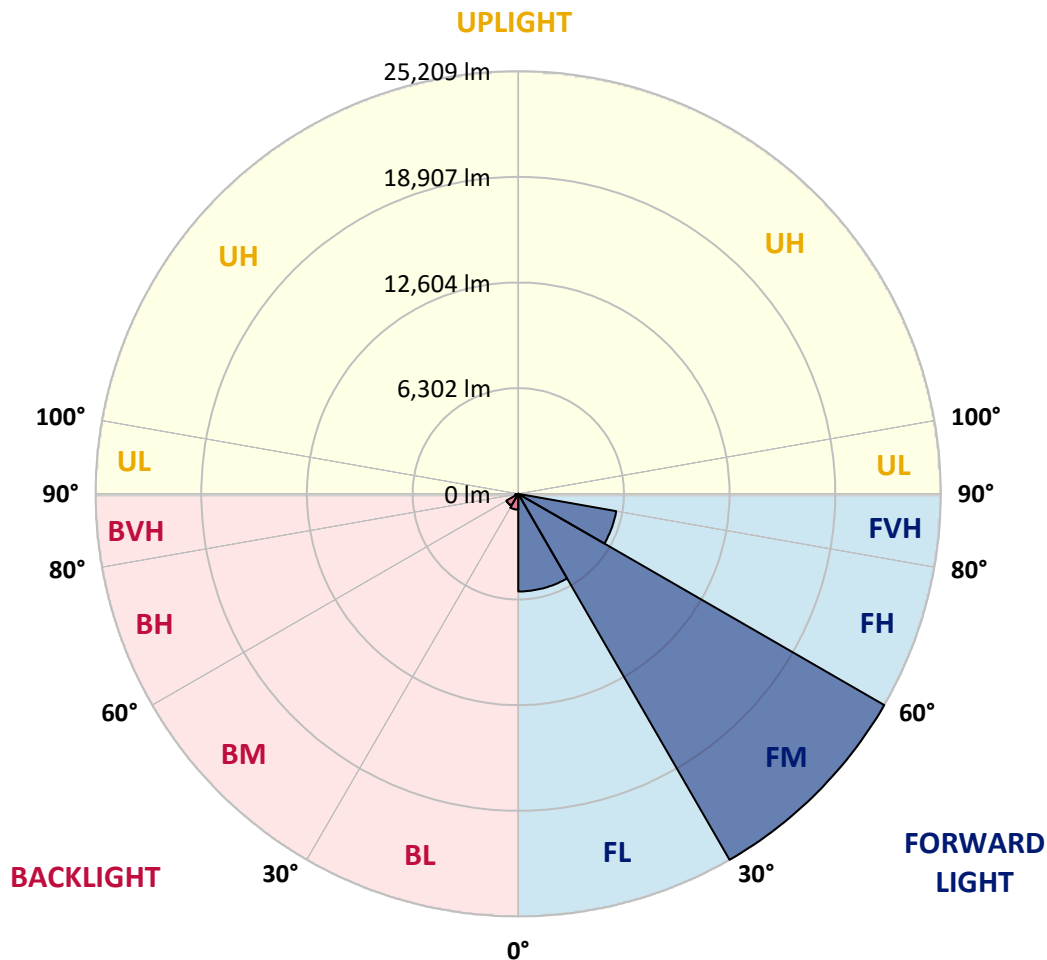
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5823.9	14.9			
FM (30°-60°)	25208.9	64.7			
FH (60°-80°)	5933.3	15.2			G3/7500
FVH (80°-90°)	50.3	0.1			G1/100
BL (0°-30°)	945.7	2.4	B2/1000		
BM (30°-60°)	816.8	2.1	B1/1000		
BH (60°-80°)	179.1	0.5	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5
2.5°	10949.8	10786.6	10791.6	10717.6	10446.7	10234.7	10014.3	9962.2	9618.9	9258.8	8912.3
5°	12842.6	12723.2	12694.6	12551.5	12174.7	11775.9	11348.6	11249.3	10577.9	9841.0	9115.8
7.5°	13815.1	13816.8	13793.2	13741.1	13505.5	13118.5	12596.9	12492.6	11579.0	10473.7	9327.9
10°	13532.4	13596.4	13727.6	13900.9	14080.9	14032.2	13640.1	13545.9	12553.3	11143.3	9563.4
12.5°	12872.9	12881.3	13027.7	13312.0	13830.2	14361.9	14368.7	14336.7	13483.7	11843.2	9822.5
15°	12544.8	12576.7	12630.6	12814.0	13305.3	14156.6	14765.7	14811.1	14336.7	12586.9	10098.4
17.5°	12760.2	12805.6	12760.2	12782.0	13066.4	13831.9	14834.7	14950.8	15082.0	13322.2	10359.2
20°	13344.0	13386.1	13305.3	13216.1	13271.7	13737.7	14785.9	14942.4	15665.8	13974.9	10577.9
22.5°	14131.4	14148.3	14025.4	13879.0	13838.7	14057.4	14826.3	14987.8	16133.6	14565.5	10715.9
25°	14997.9	15013.0	14860.0	14691.7	14595.8	14684.9	15157.8	15278.9	16545.8	15129.2	10795.0
27.5°	15941.8	15955.3	15763.5	15556.5	15445.4	15448.8	15704.6	15834.1	16984.9	15771.8	10859.0
30°	16939.5	16932.8	16756.1	16468.5	16327.0	16323.7	16491.9	16623.2	17621.0	16596.3	10946.4
32.5°	18060.1	18046.6	17795.9	17439.2	17279.4	17302.9	17452.7	17528.4	18410.1	17474.5	11102.9
35°	19535.7	19496.9	19118.3	18675.9	18381.4	18373.0	18499.2	18559.8	19416.2	18537.9	11363.7
37.5°	21450.4	21415.0	20901.9	20259.1	19845.2	19690.4	19840.2	19917.6	20851.4	19902.4	11782.6
40°	23338.2	23302.8	22998.2	22409.4	21771.7	21399.9	21517.6	21600.1	22643.2	21558.0	12311.0
42.5°	24640.4	24670.6	24776.7	24825.5	24228.2	23447.5	23501.3	23587.2	24526.0	23328.0	12915.0
45°	24983.6	25049.2	25648.2	26824.3	27048.0	26439.0	25875.3	25922.5	26439.0	25098.0	13519.0
47.5°	23952.2	24073.3	25229.3	27416.6	29311.1	29741.7	28675.0	28612.8	28274.6	26529.8	13948.1
50°	21608.5	21719.5	23217.0	26452.4	29997.5	32894.8	32030.0	31846.5	29884.8	27386.2	14099.4
52.5°	18216.5	18351.1	19567.6	23417.2	28703.7	34301.4	35206.5	35053.4	31065.9	27453.5	14124.7
55°	12864.5	13027.7	14314.8	17947.4	24603.4	33182.5	36332.1	36286.8	32046.8	27275.2	14178.5
57.5°	7229.7	7347.5	8735.6	11505.0	18019.7	28902.2	35156.0	35457.2	32639.0	26965.6	14259.3
60°	3210.2	3242.2	3960.7	5727.2	10549.3	22088.0	31789.3	32297.5	32130.9	26551.7	14395.6
62.5°	1780.1	1753.2	1753.2	2380.8	4584.8	13673.7	25922.5	26762.1	29962.1	26062.1	14402.3
65°	1394.8	1369.6	1297.2	1307.3	1746.5	6068.8	17950.7	19443.1	25843.4	24627.0	13917.7
67.5°	1182.8	1160.9	1088.6	1060.0	1085.3	2002.2	9862.9	11412.5	19609.6	20896.8	12055.2
70°	999.5	984.3	947.3	911.9	848.0	989.3	3773.9	4827.1	12083.8	13900.9	8229.2
72.5°	804.2	797.5	811.0	780.7	703.3	659.5	1290.5	1563.0	5427.8	6203.5	3390.3
75°	693.2	689.8	696.5	666.2	578.8	459.3	656.2	716.7	1531.1	1517.6	686.5
77.5°	450.9	456.0	577.1	563.7	498.0	306.2	339.8	366.8	464.4	348.3	208.7
80°	287.8	284.3	292.8	467.7	447.5	233.9	169.9	178.4	223.8	171.6	101.0
82.5°	174.9	171.6	191.8	218.7	225.4	163.2	104.3	106.0	139.6	111.0	53.8
85°	15.2	20.2	116.1	107.7	77.4	50.5	50.5	53.8	74.1	65.6	30.3
87.5°	0.0	0.0	20.2	30.3	16.9	18.5	18.5	20.2	28.6	28.6	15.2
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°	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5	8725.5
2.5°	8732.2	8557.3	8204.0	7864.0	7576.4	7298.8	6982.4	6669.5	6523.1	6464.2	6403.6
5°	8747.4	8387.3	7658.8	6925.2	6164.7	5479.9	4896.1	4297.1	3997.6	3866.4	3805.8
7.5°	8767.5	8219.0	7041.3	5809.7	4584.8	3656.1	2845.1	2323.6	2098.1	2062.7	1975.3
10°	8770.9	8015.5	6324.6	4578.1	3073.9	2204.1	1696.0	1426.8	1327.5	1310.7	1282.1
12.5°	8777.7	7774.9	5528.7	3390.3	2049.3	1473.9	1226.6	1137.4	1110.5	1108.8	1108.8
15°	8797.8	7522.5	4702.6	2443.0	1472.2	1167.7	1076.8	1041.5	1031.4	1036.4	1034.8
17.5°	8797.8	7224.7	3891.6	1820.5	1189.5	1049.9	999.5	975.9	972.5	977.6	979.2
20°	8733.9	6863.0	3148.0	1416.7	1055.0	974.2	928.8	906.9	898.5	901.8	903.5
22.5°	8580.8	6418.7	2542.3	1172.7	965.7	905.2	856.4	822.7	809.3	811.0	811.0
25°	8341.9	5892.1	1988.8	1014.5	893.4	831.1	773.9	735.3	726.9	725.1	728.6
27.5°	8035.7	5310.0	1583.3	893.4	807.7	748.7	691.5	659.5	652.8	654.5	656.2
30°	7734.5	4706.0	1248.5	790.8	711.7	656.2	612.4	597.3	597.3	602.3	604.0
32.5°	7458.5	4125.5	987.6	701.6	625.9	575.4	550.2	548.5	556.9	560.2	562.0
35°	7221.4	3588.8	817.7	632.6	558.6	514.9	506.4	513.2	523.3	530.0	531.6
37.5°	7053.1	3109.3	715.1	575.4	506.4	471.1	469.4	482.9	496.3	511.5	514.9
40°	6982.4	2703.8	644.4	524.9	464.4	437.5	432.4	450.9	476.1	498.0	501.4
42.5°	6923.5	2372.4	583.8	476.1	430.7	392.0	390.3	413.9	444.2	466.1	471.1
45°	6873.1	2106.5	528.3	423.9	387.0	336.5	341.5	371.9	395.3	418.9	423.9
47.5°	6768.7	1887.8	467.7	368.4	319.7	287.8	297.8	324.7	343.3	378.6	383.6
50°	6581.9	1709.4	405.5	301.2	260.8	249.0	264.2	282.6	306.2	336.5	339.8
52.5°	6455.8	1574.9	351.7	252.4	215.4	218.7	233.9	240.6	254.0	265.9	262.5
55°	6383.4	1500.8	307.9	218.7	183.4	193.5	196.8	188.5	181.7	169.9	164.9
57.5°	6375.0	1433.5	274.2	190.1	161.5	166.6	154.8	126.2	102.7	89.1	85.8
60°	6361.5	1351.0	247.3	159.9	143.0	136.3	111.0	69.0	48.8	45.5	45.5
62.5°	6215.2	1223.2	227.1	134.6	121.1	102.7	63.9	32.0	26.9	28.6	28.6
65°	5749.1	1044.8	207.0	109.4	95.9	74.1	32.0	18.5	10.1	11.7	11.7
67.5°	4887.7	832.8	185.1	84.1	72.4	47.1	18.5	8.4	0.0	0.0	0.0
70°	3272.5	516.5	156.5	58.9	47.1	28.6	13.4	1.7	0.0	0.0	0.0
72.5°	1255.2	279.3	126.2	35.3	30.3	20.2	8.4	0.0	0.0	0.0	0.0
75°	282.6	183.4	87.5	25.2	21.9	13.4	3.4	0.0	0.0	0.0	0.0
77.5°	107.7	132.9	50.5	16.9	15.2	8.4	0.0	0.0	0.0	0.0	0.0
80°	52.2	79.1	23.6	10.1	8.4	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	26.9	30.3	10.1	5.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	15.2	5.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	5.0	1.7	1.7	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)