

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: P458037

Luminaire Tested: **GALN-SA9B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30644 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 364
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

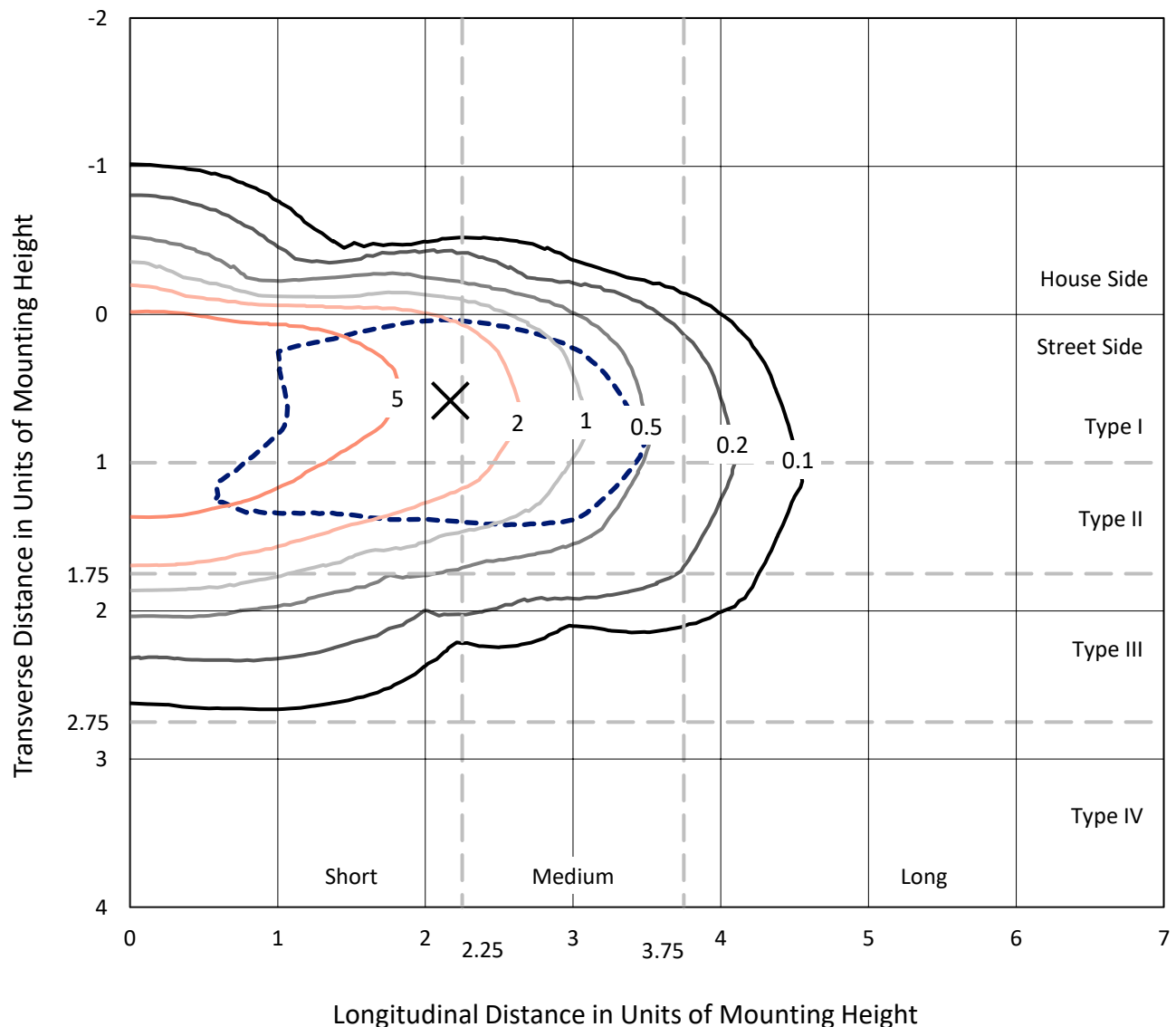


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

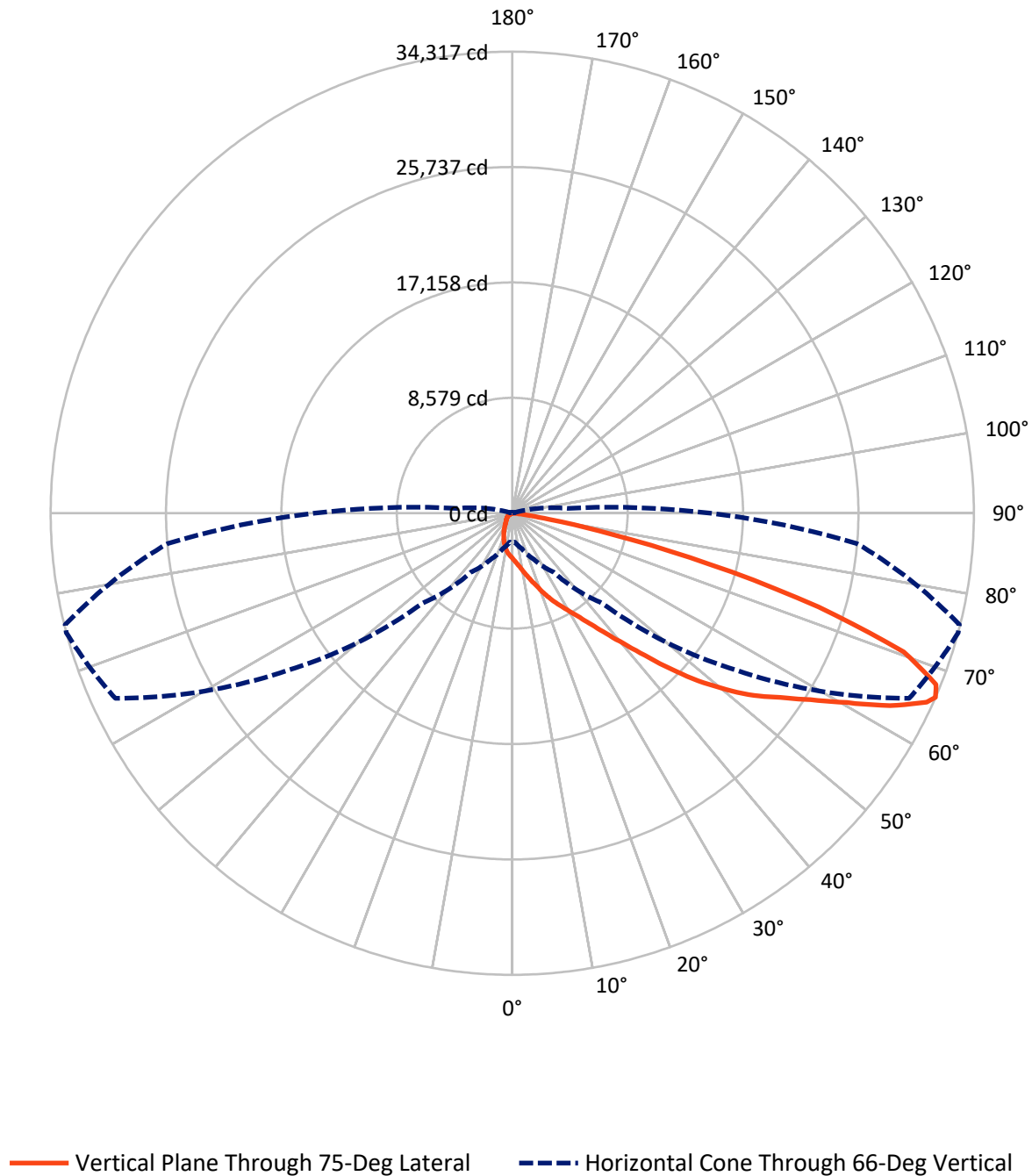


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.8	0.0	1891.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	28752.2	0.0	28752.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	30644.0	0.0	30644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.1
10°-20°	951.3	3.1
20°-30°	1642.7	5.4
30°-40°	2963.0	9.7
40°-50°	5352.8	17.5
50°-60°	8345.0	27.2
60°-70°	7927.4	25.9
70°-80°	2971.0	9.7
80°-90°	167.6	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°	30644.0	100.0
0°-180°	30644.0	100.0

Coefficient of Utilization



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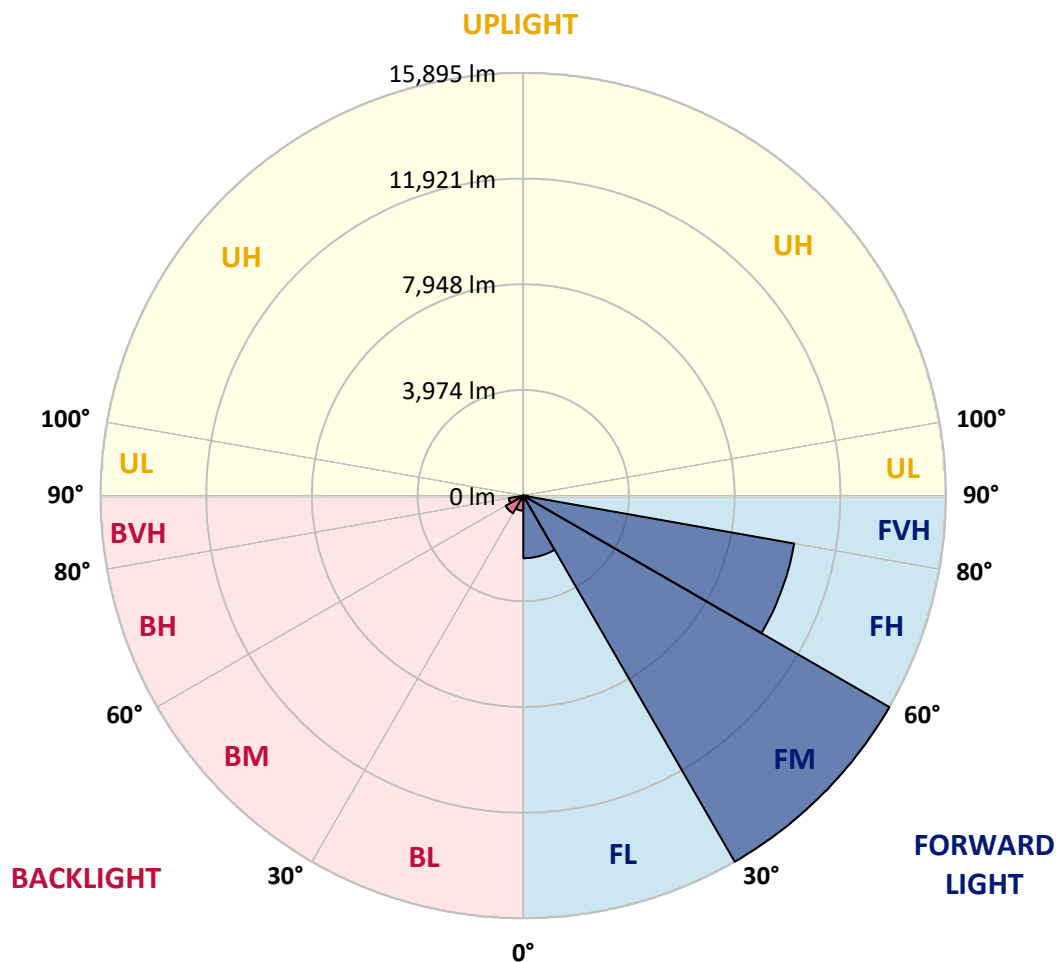
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2352.2	7.7			
FM	(30°-60°)	15895.0	51.9			
FH	(60°-80°)	10346.0	33.8			G4/12000
FVH	(80°-90°)	159.0	0.5			G2/225
BL	(0°-30°)	565.0	1.8	B2/1000		
BM	(30°-60°)	765.8	2.5	B1/1000		
BH	(60°-80°)	552.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.7	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2
2.5°	4003.8	3953.9	3969.8	3947.1	3895.0	3818.0	3750.0	3652.6	3555.2	3539.3	3430.5
5°	4531.7	4518.1	4500.0	4434.3	4398.1	4280.2	4139.7	3972.1	3770.4	3734.2	3537.0
7.5°	4892.0	4885.2	4894.3	4860.3	4828.6	4722.1	4572.5	4343.7	4031.0	4010.6	3682.0
10°	5009.8	5028.0	5062.0	5116.3	5166.2	5132.2	5018.9	4733.4	4368.6	4309.7	3847.5
12.5°	4941.9	4962.3	5043.8	5188.8	5349.7	5442.6	5397.3	5188.8	4726.6	4679.0	4033.3
15°	4767.4	4792.3	4907.9	5132.2	5420.0	5682.8	5796.1	5646.6	5143.5	5066.5	4257.6
17.5°	4509.1	4545.3	4710.7	5007.6	5401.8	5855.0	6174.5	6124.7	5587.6	5515.1	4502.3
20°	4314.2	4341.4	4481.9	4821.8	5324.8	5950.2	6534.8	6675.3	6136.0	6011.4	4790.1
22.5°	4443.4	4452.4	4500.0	4703.9	5186.6	5975.1	6852.0	7248.5	6718.3	6607.3	5089.1
25°	5075.6	4984.9	4937.3	4892.0	5157.1	5952.4	7139.8	7846.7	7298.4	7180.5	5386.0
27.5°	6072.5	6031.8	5791.6	5469.8	5408.6	5981.9	7330.1	8413.2	7844.4	7717.6	5676.0
30°	7157.9	7087.6	6940.4	6469.1	5995.5	6190.4	7468.3	8963.8	8490.2	8322.5	5941.1
32.5°	8154.9	8200.2	7980.4	7495.5	6947.2	6634.5	7647.3	9564.2	9231.2	9022.7	6249.3
35°	9317.3	9407.9	9070.3	8605.8	7964.5	7436.6	7996.3	10241.7	10171.5	9908.7	6725.1
37.5°	10497.8	10552.2	10346.0	9693.4	9115.6	8456.2	8653.4	11077.8	11329.4	11105.0	7293.8
40°	11490.2	11565.0	11413.2	10833.1	10216.8	9636.8	9607.3	11988.7	12707.0	12475.9	8141.3
42.5°	12249.3	12305.9	12310.5	11900.4	11345.2	11082.4	10824.1	13151.1	14433.6	14166.2	9124.7
45°	13207.8	13289.3	13241.8	12963.1	12548.4	12500.8	12367.1	14556.0	16500.1	16162.5	10400.4
47.5°	14689.6	14744.0	14626.2	14297.7	13876.2	13951.0	13871.7	16130.7	18607.3	18317.3	11721.4
50°	15718.4	15809.0	15976.7	16108.1	15802.2	15525.8	15290.1	17601.3	20608.1	20347.5	13071.8
52.5°	15707.0	15856.6	16386.8	17048.4	17716.9	17633.0	16955.5	19225.9	22518.2	22196.5	14340.7
55°	14648.9	14938.9	15718.4	16892.1	18743.3	19665.5	19357.3	21106.6	24167.8	23950.3	15811.3
57.5°	12464.6	12641.3	13724.4	15364.9	18170.0	20621.7	22139.8	23655.7	26145.9	26043.9	18095.3
60°	8383.7	8463.0	9856.5	11884.5	15469.1	19667.8	24179.1	26739.6	28581.7	28531.9	20762.2
62.5°	4803.6	4837.6	5848.2	7558.9	11007.6	16667.8	24351.3	30544.0	31502.4	31529.6	23848.3
65°	2585.4	2603.5	3419.2	4436.6	6697.9	11880.0	21897.4	32628.6	33863.5	33915.6	25760.7
66°	2231.9	2145.8	2721.3	3781.7	5329.3	9455.5	20345.3	32553.8	34316.6	34260.0	25692.7
67.5°	1697.1	1774.2	2173.0	2907.1	3949.4	6722.8	16796.9	31105.9	33972.2	33795.5	24648.2
70°	1214.5	1246.2	1547.6	2073.3	2689.6	3688.8	10733.4	25835.5	30877.0	30639.1	21473.7
72.5°	784.0	818.0	1096.7	1500.0	1944.1	2014.4	6009.1	18666.3	23805.2	23771.3	16171.5
75°	559.7	591.4	725.1	1074.0	1461.5	1246.2	2893.5	12580.1	15133.8	15031.8	10003.8
77.5°	405.6	421.5	484.9	702.4	1044.6	892.8	1341.4	6718.3	7534.0	7889.8	4420.7
80°	233.4	247.0	337.6	428.2	707.0	609.5	641.2	2696.4	2780.2	2646.5	1382.2
82.5°	115.6	131.4	201.7	292.3	441.8	410.1	294.6	811.2	856.5	833.8	348.9
85°	27.2	34.0	113.3	192.6	215.3	183.5	142.7	237.9	294.6	287.8	133.7
87.5°	2.3	4.5	40.8	34.0	36.3	61.2	49.8	61.2	95.2	88.4	47.6
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°	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2
2.5°	3380.7	3337.6	3213.0	3090.6	2988.7	2882.2	2784.8	2728.1	2705.5	2680.5	2691.9
5°	3428.3	3324.0	3072.5	2855.0	2642.0	2460.7	2315.7	2222.8	2177.5	2170.7	2159.4
7.5°	3491.7	3312.7	2923.0	2583.1	2304.4	2102.7	1937.3	1803.6	1762.8	1726.6	1697.1
10°	3568.7	3292.3	2737.2	2297.6	2000.8	1747.0	1529.5	1370.9	1289.3	1266.6	1282.5
12.5°	3650.3	3253.8	2542.3	2034.8	1692.6	1368.6	1166.9	1087.6	1065.0	1055.9	1058.2
15°	3731.9	3206.2	2338.4	1781.0	1348.2	1092.2	999.2	978.9	969.8	965.3	960.7
17.5°	3806.7	3129.2	2109.5	1534.0	1092.2	933.5	899.6	881.4	863.3	856.5	845.2
20°	3895.0	3040.8	1903.3	1257.6	924.5	845.2	804.4	770.4	743.2	725.1	722.8
22.5°	3978.9	2927.5	1688.1	1042.3	842.9	759.1	693.4	657.1	625.4	602.7	609.5
25°	4024.2	2789.3	1495.5	908.6	768.1	673.0	600.5	555.1	521.2	509.8	507.6
27.5°	4024.2	2619.3	1307.4	831.6	700.2	595.9	521.2	478.1	455.4	439.6	441.8
30°	3992.5	2431.3	1132.9	772.7	641.2	527.9	457.7	419.2	401.1	389.7	387.5
32.5°	3967.5	2252.3	983.4	716.0	580.1	469.0	407.9	378.4	360.3	348.9	348.9
35°	4006.1	2098.2	867.8	659.4	523.4	423.7	369.3	342.1	324.0	315.0	312.7
37.5°	4108.0	1957.7	779.5	598.2	471.3	385.2	342.1	310.4	292.3	281.0	276.4
40°	4359.5	1878.4	713.7	541.5	421.5	353.5	310.4	281.0	258.3	247.0	244.7
42.5°	4762.9	1880.7	650.3	489.4	382.9	326.3	283.2	249.2	224.3	213.0	210.7
45°	5370.1	1966.8	600.5	439.6	348.9	296.8	253.8	217.5	194.9	183.5	183.5
47.5°	6097.5	2134.5	557.4	396.5	317.2	269.6	224.3	188.1	165.4	156.3	156.3
50°	6886.0	2352.0	514.4	351.2	290.0	240.2	192.6	163.1	145.0	138.2	138.2
52.5°	7690.4	2614.8	471.3	315.0	260.6	208.5	165.4	145.0	129.2	124.6	122.4
55°	8746.3	2950.2	426.0	276.4	228.9	179.0	147.3	126.9	108.8	102.0	99.7
57.5°	10370.9	3455.5	376.1	242.4	188.1	149.5	126.9	106.5	86.1	74.8	72.5
60°	12330.9	4071.8	324.0	213.0	151.8	122.4	102.0	81.6	63.4	49.8	47.6
62.5°	14166.2	4463.8	274.2	179.0	120.1	92.9	72.5	61.2	45.3	31.7	29.5
65°	14977.4	4332.3	226.6	145.0	95.2	65.7	47.6	43.1	27.2	13.6	11.3
66°	14707.8	4137.5	208.5	131.4	86.1	56.6	40.8	36.3	20.4	6.8	6.8
67.5°	13912.5	3677.5	181.3	113.3	74.8	45.3	31.7	27.2	11.3	2.3	0.0
70°	11920.8	2975.1	142.7	83.8	54.4	31.7	18.1	13.6	6.8	0.0	0.0
72.5°	9156.4	2216.0	113.3	63.4	38.5	18.1	9.1	4.5	6.8	0.0	0.0
75°	5610.3	1266.6	88.4	47.6	24.9	11.3	6.8	0.0	6.8	2.3	0.0
77.5°	2490.2	568.7	58.9	31.7	18.1	9.1	4.5	0.0	4.5	2.3	0.0
80°	629.9	185.8	34.0	22.7	13.6	6.8	2.3	0.0	4.5	4.5	2.3
82.5°	172.2	68.0	24.9	18.1	11.3	6.8	2.3	0.0	4.5	4.5	4.5
85°	68.0	31.7	22.7	18.1	13.6	6.8	2.3	0.0	4.5	4.5	4.5
87.5°	31.7	22.7	22.7	20.4	15.9	6.8	2.3	0.0	4.5	2.3	4.5
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)