

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: P534069

Luminaire Tested: **GALN-SA9C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36108 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

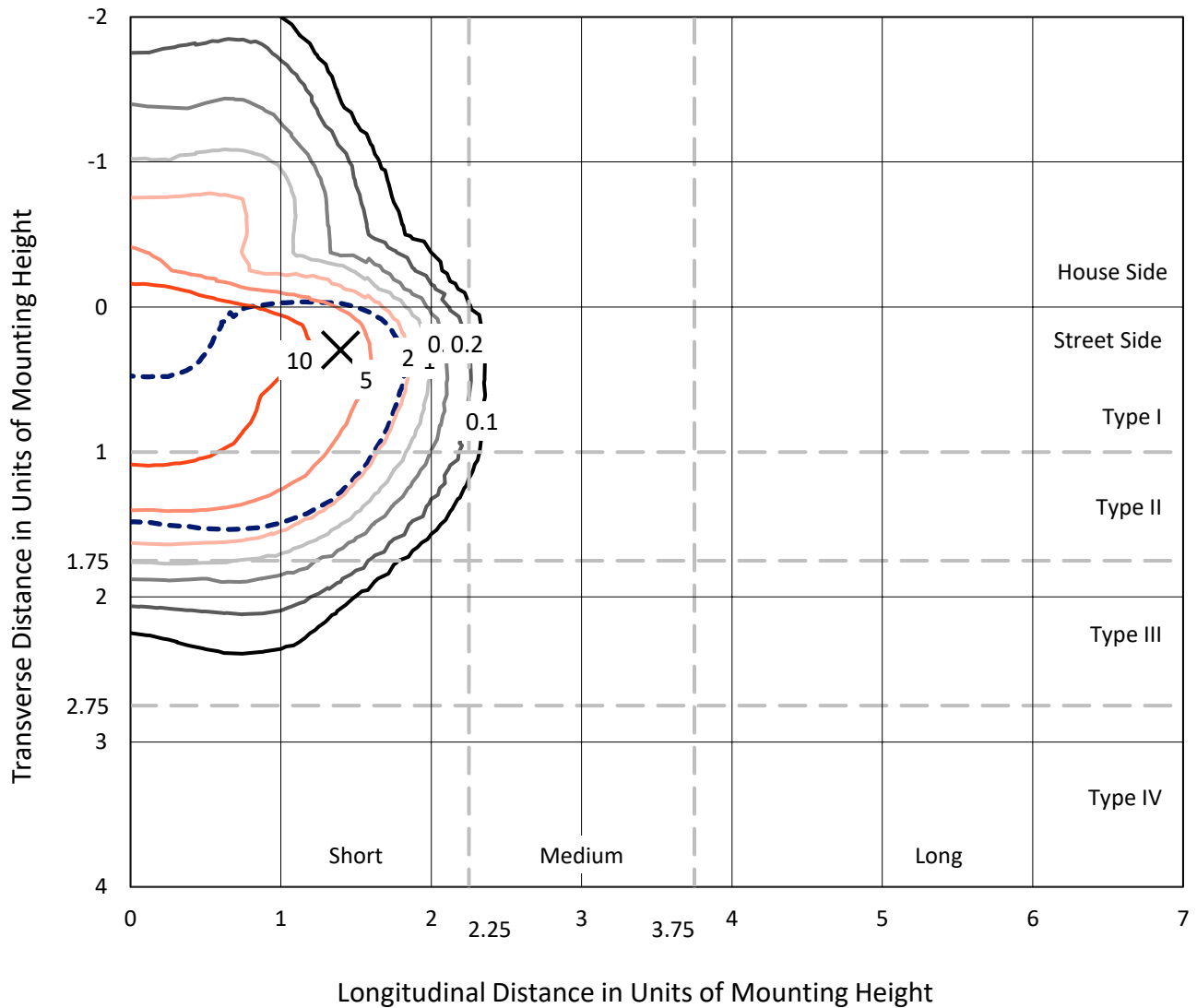
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

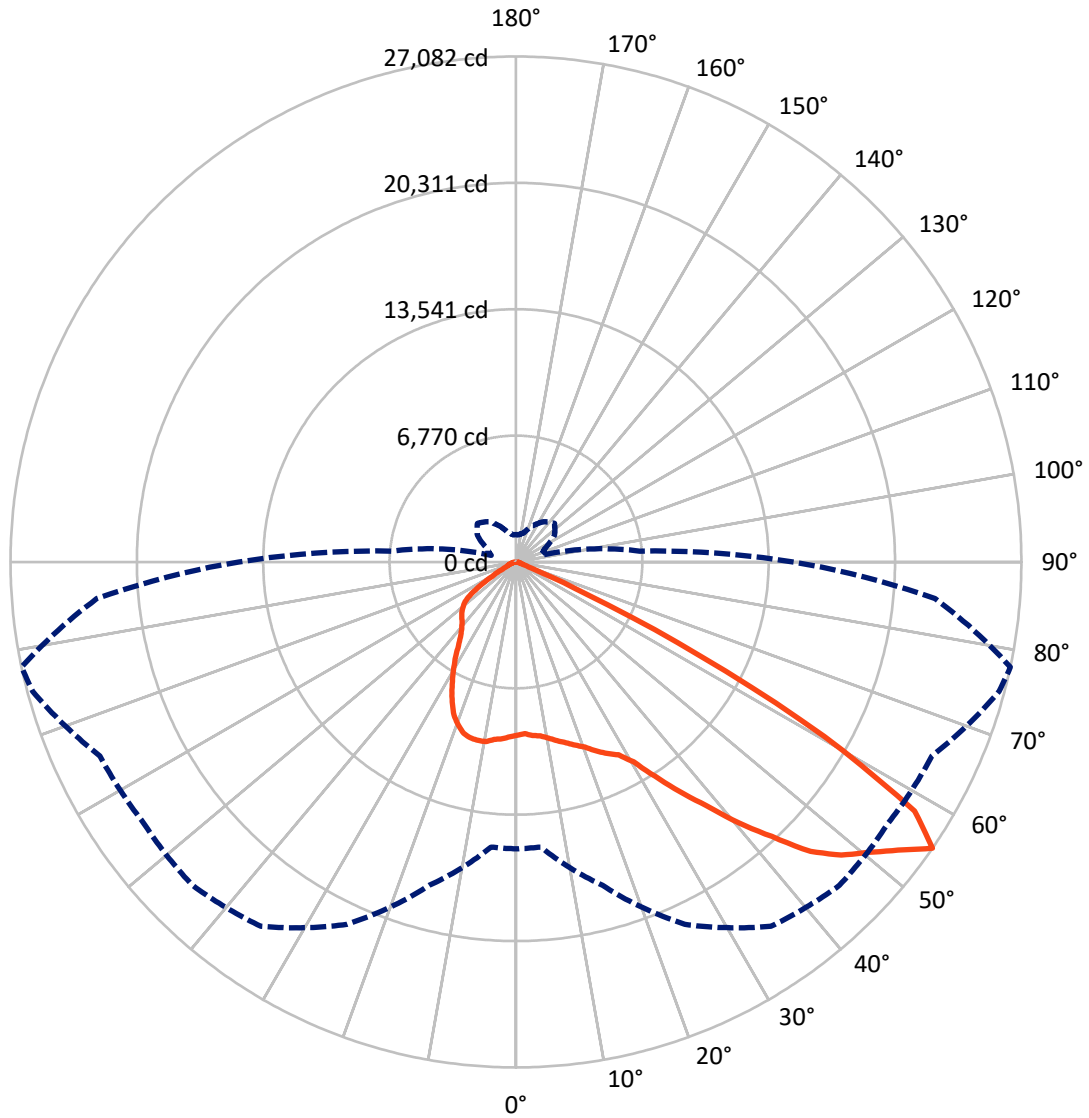
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6706.7	0.0	6706.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29401.3	0.0	29401.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	36108.0	0.0	36108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.8	2.3
10°-20°	2190.7	6.1
20°-30°	3840.0	10.6
30°-40°	6331.6	17.5
40°-50°	9213.3	25.5
50°-60°	10439.7	28.9
60°-70°	2984.9	8.3
70°-80°	231.8	0.6
80°-90°	48.2	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°	36108.0	100.0
0°-180°	36108.0	100.0

Coefficient of Utilization



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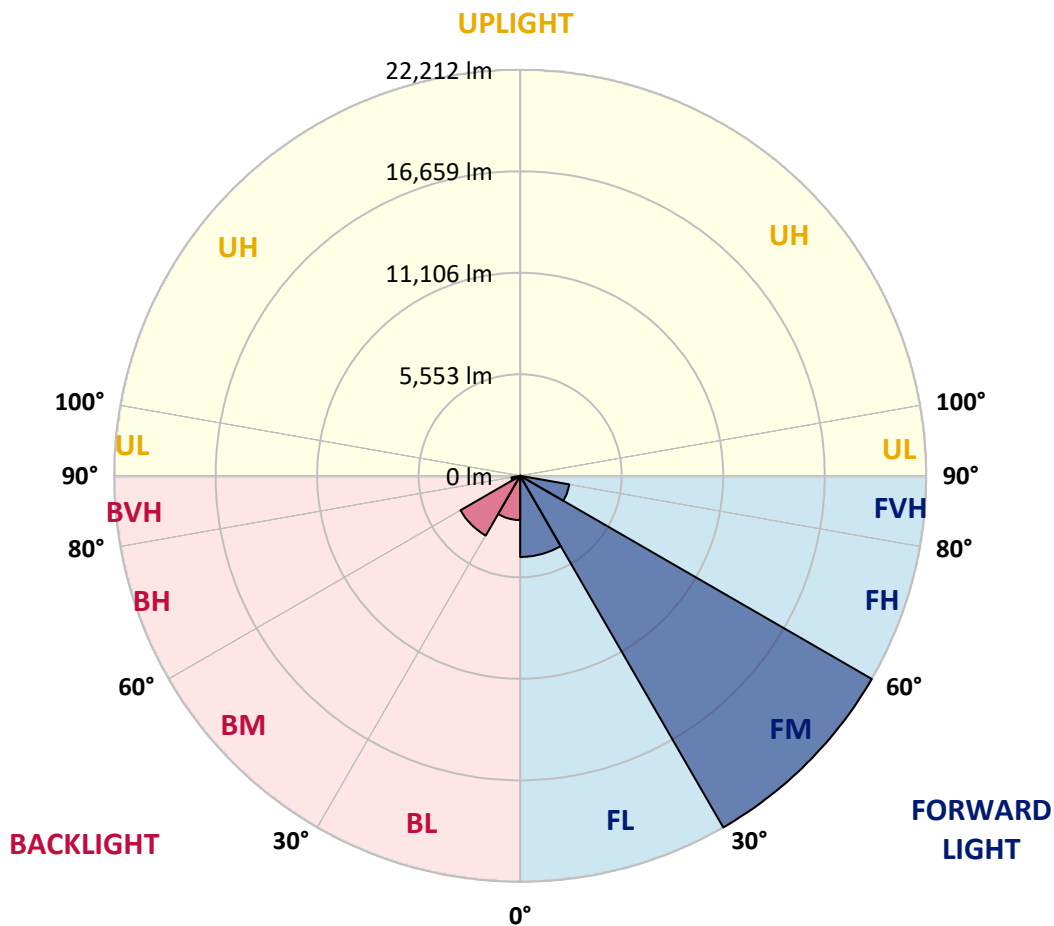
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4438.7	12.3			
FM (30°-60°)	22212.0	61.5			
FH (60°-80°)	2727.1	7.6			G2/5000
FVH (80°-90°)	23.5	0.1			G1/100
BL (0°-30°)	2419.8	6.7	B3/2500		
BM (30°-60°)	3772.6	10.4	B3/5000		
BH (60°-80°)	489.5	1.4	B1/500		G1/500
BVH (80°-90°)	24.7	0.1			G1/100
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°	78°	85°
0°	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4
2.5°	8728.2	8812.1	8825.0	8928.3	8921.9	9096.2	9147.8	9154.3	9270.5	9212.4	9360.9
5°	8482.9	8437.7	8418.3	8599.1	8650.7	8805.7	8934.8	9012.2	9251.1	9335.0	9490.0
7.5°	8263.4	8263.4	8276.3	8437.7	8418.3	8618.4	8754.0	8992.9	9341.5	9412.5	9599.7
10°	8050.3	7972.9	8069.7	8237.6	8379.6	8470.0	8754.0	8980.0	9386.7	9593.3	9851.5
12.5°	7940.6	7979.3	7992.2	8114.9	8269.8	8541.0	8695.9	9070.3	9709.5	9832.1	10109.7
15°	8631.4	8553.9	8366.7	8256.9	8386.0	8515.2	8902.5	9283.4	9877.3	10051.6	10361.5
17.5°	9431.9	9367.3	9212.4	8915.4	8624.9	8863.8	9167.2	9515.8	10058.1	10316.3	10774.7
20°	10477.7	10374.4	10219.5	9638.5	9386.7	9128.4	9451.2	9864.4	10355.0	10587.5	11058.7
22.5°	11723.7	11723.7	11375.1	10671.4	10148.5	9903.1	10038.7	10277.6	10684.3	11000.6	11465.4
25°	13021.3	12982.5	12666.2	11936.7	11052.3	10761.8	10916.7	11084.5	11194.3	11368.6	11678.5
27.5°	14506.1	14280.1	13879.9	13072.9	12291.8	11730.1	11898.0	11749.5	11613.9	11704.3	12149.7
30°	15513.2	15655.2	15145.2	14370.5	13634.6	13008.4	13040.6	12911.5	12291.8	12420.9	12685.6
32.5°	16559.0	16649.4	16365.4	15939.3	15203.3	14473.8	14209.1	14099.4	13634.6	13692.7	13434.4
35°	17430.6	17604.9	17353.1	17165.9	16952.8	16365.4	15635.9	15990.9	15242.1	15100.0	14428.6
37.5°	18231.1	18179.4	18476.4	18282.7	18237.5	17824.4	17023.8	17094.9	16591.3	16559.0	15784.3
40°	18947.7	18960.6	19367.3	19457.7	19276.9	18541.0	17378.9	17940.6	18347.3	18386.0	17391.8
42.5°	19541.6	19715.9	20064.5	20794.0	20522.9	19296.3	17746.9	18360.2	19870.8	20109.7	18915.4
45°	20058.1	20413.1	20845.7	21497.7	21342.8	20367.9	18663.6	19225.3	21497.7	22123.9	20348.6
47.5°	20090.3	20555.2	21026.4	21994.8	22188.5	20942.5	19612.6	20593.9	22788.8	23466.7	21394.4
50°	19961.2	20206.5	21149.1	22201.4	22640.4	21878.6	20942.5	21743.0	24041.3	24467.3	21923.8
52.5°	18431.2	18618.4	20510.0	22395.0	23453.8	22937.3	22704.9	23344.0	25319.5	25635.8	22420.9
55°	15364.7	15332.4	17934.1	21420.2	23828.2	24506.1	24364.1	24590.0	26797.9	27081.9	22543.5
57.5°	10510.0	11097.5	13344.1	17837.3	21536.4	24138.1	24286.6	23912.1	25074.2	25183.9	19651.3
60°	5668.2	5913.5	7721.1	11904.4	16397.6	19670.7	20058.1	19380.2	19289.8	18979.9	14028.4
62.5°	2253.1	2375.7	3402.2	5894.1	8934.8	11956.1	12788.9	12511.3	11917.3	11103.9	7262.7
65°	1071.7	1149.1	1691.4	2756.6	3963.8	4983.8	5816.6	6074.9	4480.3	4034.9	2395.1
67.5°	729.5	787.6	1233.1	1575.2	1413.8	1478.4	1923.8	1788.2	1052.3	897.4	664.9
70°	555.2	593.9	987.7	1071.7	632.7	445.4	497.1	464.8	432.5	439.0	432.5
72.5°	393.8	426.1	723.0	632.7	277.6	206.6	264.7	316.3	316.3	316.3	309.9
75°	238.9	271.1	419.6	245.3	109.7	109.7	167.8	213.0	226.0	232.4	219.5
77.5°	122.7	154.9	142.0	71.0	71.0	83.9	122.7	148.5	161.4	161.4	154.9
80°	25.8	25.8	25.8	38.7	71.0	90.4	122.7	135.6	154.9	154.9	142.0
82.5°	0.0	6.5	19.4	38.7	64.6	83.9	116.2	135.6	154.9	161.4	148.5
85°	0.0	6.5	12.9	25.8	45.2	51.6	45.2	38.7	38.7	38.7	38.7
87.5°	0.0	0.0	6.5	6.5	6.5	12.9	12.9	12.9	12.9	12.9	12.9
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°	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4	9283.4
2.5°	9373.8	9393.1	9360.9	9354.4	9328.6	9406.0	9218.8	9173.6	9289.8	9180.1	9205.9
5°	9496.4	9541.6	9483.5	9386.7	9244.7	9025.2	8837.9	8592.6	8476.4	8392.5	8379.6
7.5°	9586.8	9619.1	9561.0	9251.1	8825.0	8269.8	7856.7	7553.2	7314.4	7243.4	7127.2
10°	9954.8	9961.2	9670.7	8986.4	8153.6	7424.1	6791.5	6326.6	6087.8	5939.3	5874.7
12.5°	10200.1	10187.2	9599.7	8463.5	7353.1	6384.8	5661.7	5100.1	4880.6	4809.5	4764.4
15°	10510.0	10439.0	9431.9	7927.7	6320.2	5274.4	4622.3	4235.0	4215.6	4170.4	4215.6
17.5°	10755.3	10555.2	9186.6	6952.9	5332.5	4344.7	3918.6	3944.5	3996.1	4041.3	4047.8
20°	11155.6	10742.4	8624.9	6100.7	4415.7	3725.0	3718.5	3834.7	3963.8	4015.5	4067.1
22.5°	11459.0	10819.9	8024.5	5190.4	3666.9	3473.2	3582.9	3757.3	3854.1	3905.7	3983.2
25°	11568.7	10606.8	7224.0	4280.2	3305.4	3357.0	3524.8	3641.1	3763.7	3821.8	3789.5
27.5°	11678.5	10497.1	6268.5	3524.8	3111.7	3279.5	3421.6	3537.8	3576.5	3654.0	3705.6
30°	11943.2	10116.2	5409.9	3047.1	3014.8	3227.9	3331.2	3369.9	3473.2	3518.4	3518.4
32.5°	12156.2	9967.7	4499.7	2821.2	3001.9	3253.7	3266.6	3266.6	3279.5	3247.2	3234.3
35°	12595.2	9457.7	3686.2	2685.6	2995.5	3260.2	3292.4	3182.7	2885.7	2769.5	2737.2
37.5°	13137.5	9128.4	3085.9	2653.3	3040.7	3337.6	3389.3	2976.1	2588.8	2401.5	2369.3
40°	13796.0	8896.0	2692.1	2640.4	3144.0	3518.4	3363.5	2814.7	2311.2	2040.0	2027.1
42.5°	14564.2	8683.0	2427.4	2634.0	3273.1	3705.6	3337.6	2679.1	2027.1	1846.3	1872.2
45°	15177.5	8566.8	2246.6	2588.8	3318.3	3815.4	3357.0	2440.3	1910.9	1794.7	1807.6
47.5°	15655.2	8321.5	2098.1	2511.3	3311.8	3854.1	3182.7	2343.4	1852.8	1885.1	1917.4
50°	15668.1	7992.2	1910.9	2343.4	3215.0	3783.1	2982.6	2253.1	1839.9	1975.5	2040.0
52.5°	15493.8	7527.4	1710.8	2104.6	2989.0	3537.8	2801.8	2214.3	1781.8	1768.9	1846.3
55°	14874.1	6655.9	1375.1	1704.3	2524.2	2918.0	2640.4	2143.3	1607.5	1459.0	1471.9
57.5°	12020.6	4770.8	1013.6	1220.1	1788.2	2136.9	2382.2	2111.0	1446.1	1239.5	1246.0
60°	7443.5	2705.0	742.4	832.8	1103.9	1297.6	1930.3	1962.6	1291.2	1045.8	1032.9
62.5°	3821.8	1336.3	574.6	587.5	677.9	761.8	1323.4	1646.2	1168.5	994.2	994.2
65°	1278.2	658.5	503.5	451.9	451.9	471.3	800.5	1142.7	987.7	832.8	832.8
67.5°	548.7	490.6	439.0	393.8	361.5	342.2	451.9	664.9	736.0	632.7	606.8
70°	426.1	413.2	380.9	329.2	284.1	258.2	264.7	342.2	419.6	406.7	393.8
72.5°	316.3	316.3	303.4	258.2	219.5	187.2	174.3	180.8	200.1	206.6	213.0
75°	219.5	226.0	226.0	200.1	161.4	135.6	116.2	96.8	77.5	64.6	58.1
77.5°	148.5	154.9	167.8	148.5	122.7	90.4	71.0	51.6	32.3	12.9	12.9
80°	129.1	148.5	161.4	148.5	129.1	96.8	71.0	38.7	19.4	0.0	0.0
82.5°	135.6	148.5	167.8	142.0	122.7	90.4	71.0	45.2	19.4	6.5	0.0
85°	32.3	32.3	38.7	45.2	58.1	64.6	51.6	32.3	19.4	6.5	0.0
87.5°	12.9	12.9	12.9	12.9	12.9	6.5	6.5	6.5	6.5	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)