

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: P453200

Luminaire Tested: **GALN-SA4B-722-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12956 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

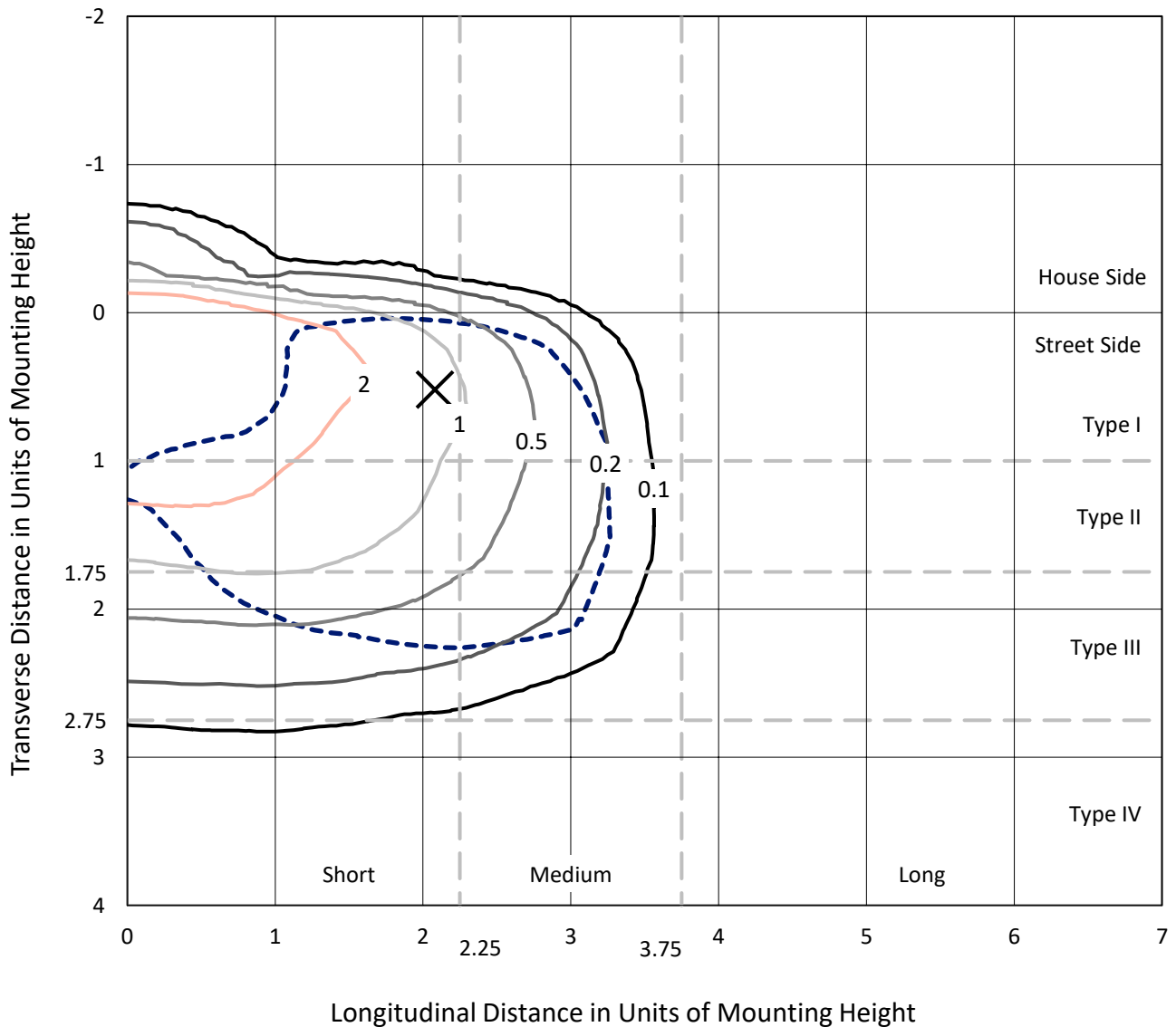
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

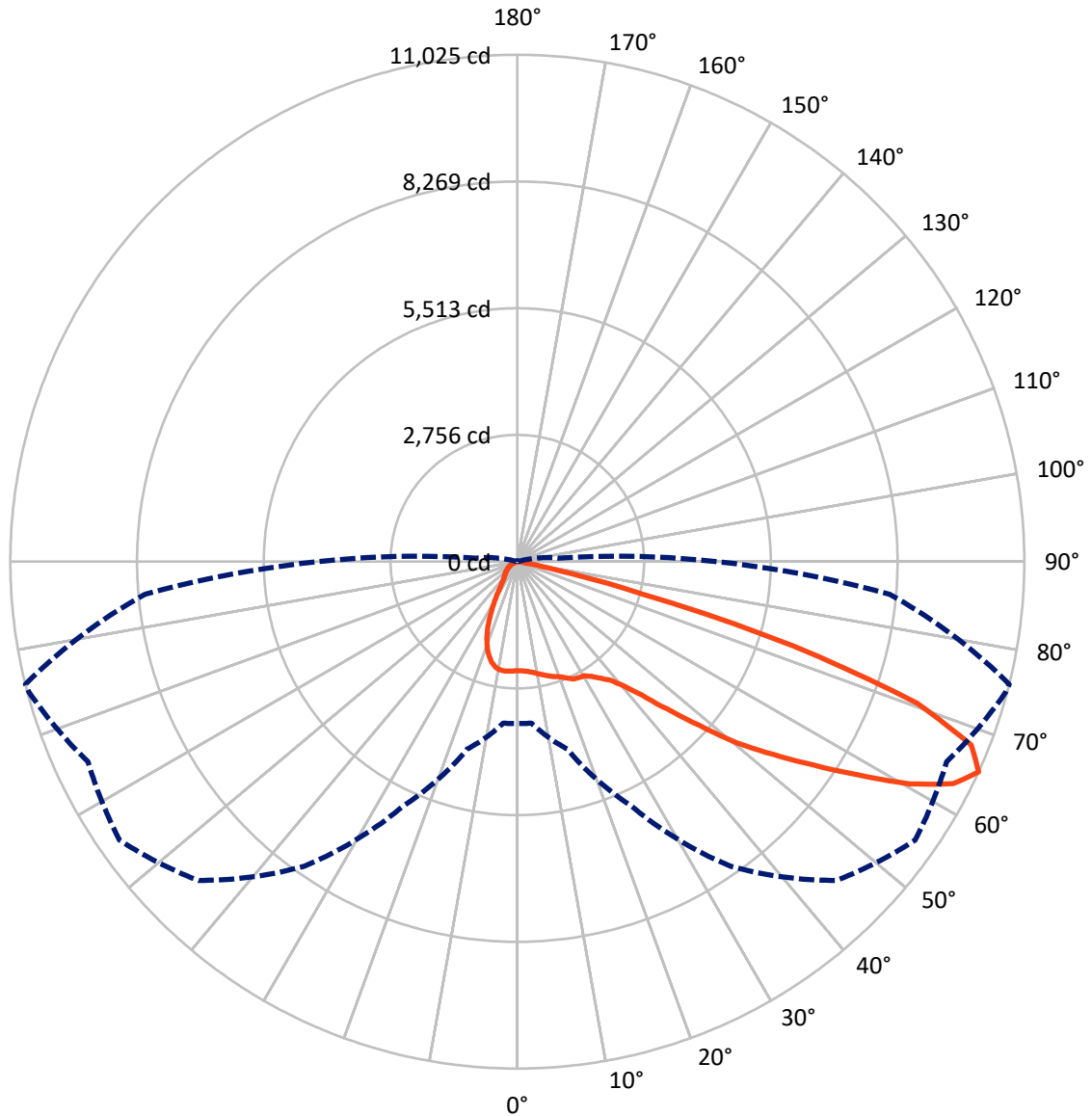
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.7	0.0	935.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12020.3	0.0	12020.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	12956.0	0.0	12956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.5
10°-20°	434.7	3.4
20°-30°	700.5	5.4
30°-40°	1218.0	9.4
40°-50°	2012.7	15.5
50°-60°	3109.1	24.0
60°-70°	3796.7	29.3
70°-80°	1440.9	11.1
80°-90°	48.1	0.4
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°	12956.0	100.0
0°-180°	12956.0	100.0

Coefficient of Utilization



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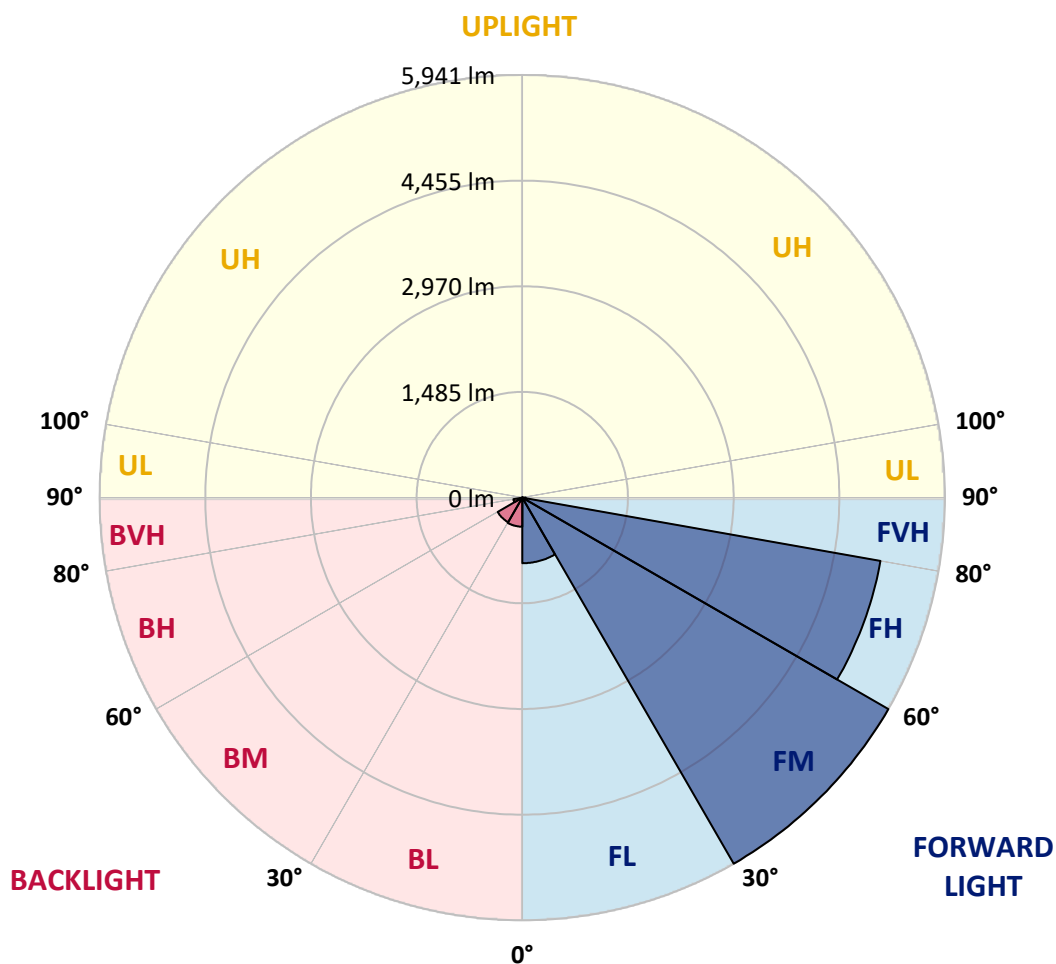
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.7	7.1			
FM (30°-60°)	5940.5	45.9			
FH (60°-80°)	5110.7	39.4			G3/7500
FVH (80°-90°)	47.4	0.4			G1/100
BL (0°-30°)	408.8	3.2	B1/500		
BM (30°-60°)	399.3	3.1	B1/1000		
BH (60°-80°)	127.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2264.9	2265.8	2271.3	2285.0	2306.0	2323.4	2338.1	2361.8	2378.3	2380.1	2385.6
5°	2108.5	2097.5	2108.5	2144.1	2176.1	2224.6	2284.1	2343.5	2396.6	2400.3	2425.9
7.5°	1932.8	1942.0	1959.4	1995.9	2056.3	2130.4	2216.4	2322.5	2423.1	2432.3	2482.6
10°	1754.5	1774.6	1802.9	1858.7	1942.9	2038.9	2156.0	2307.9	2465.2	2478.0	2564.9
12.5°	1589.8	1598.9	1633.7	1708.7	1813.0	1948.4	2110.3	2299.6	2511.8	2527.4	2652.7
15°	1463.6	1475.5	1505.6	1573.3	1689.5	1863.3	2072.8	2296.9	2557.6	2579.5	2740.5
17.5°	1439.8	1447.1	1459.9	1505.6	1607.2	1795.6	2038.9	2296.0	2601.5	2628.0	2821.9
20°	1537.7	1531.3	1518.5	1513.9	1569.7	1743.5	2014.2	2303.3	2643.6	2673.8	2907.9
22.5°	1782.8	1791.0	1716.0	1627.3	1609.0	1735.2	2010.6	2338.1	2710.3	2746.0	3004.0
25°	2303.3	2240.2	2123.1	1910.9	1750.8	1785.6	2051.7	2420.4	2788.1	2827.4	3090.9
27.5°	2878.7	2859.4	2677.4	2328.0	2029.8	1891.7	2124.9	2483.5	2813.7	2854.0	3140.3
30°	3444.0	3466.8	3258.3	2872.3	2435.0	2088.3	2193.5	2507.3	2836.6	2878.7	3203.4
32.5°	3968.1	3995.5	3812.6	3430.2	2912.5	2428.6	2311.5	2599.7	2932.6	2975.6	3308.6
35°	4380.6	4384.3	4246.2	3941.6	3433.9	2842.1	2566.7	2761.6	3062.5	3112.8	3420.2
37.5°	4759.3	4753.9	4591.9	4329.4	3868.4	3252.8	2887.8	2948.2	3210.7	3262.8	3581.2
40°	5040.2	5043.8	4991.7	4744.7	4273.6	3632.4	3142.1	3122.9	3459.5	3540.9	3815.3
42.5°	5227.7	5261.5	5287.1	5161.8	4783.1	4099.8	3532.7	3497.0	3891.3	3959.0	4146.5
45°	5379.5	5439.9	5568.0	5561.6	5272.5	4673.4	4068.7	3995.5	4503.2	4575.5	4568.2
47.5°	5490.2	5551.5	5763.7	5891.8	5732.6	5229.5	4742.9	4679.8	5234.1	5312.8	5033.8
50°	5546.9	5620.1	5890.9	6138.8	6092.1	5765.5	5511.2	5514.9	6116.8	6192.7	5573.5
52.5°	5414.3	5509.4	5958.6	6404.9	6495.5	6278.7	6231.1	6351.9	6902.6	6967.5	6061.0
55°	4990.8	5110.6	5866.2	6631.8	6962.9	6884.3	7048.9	7232.8	7761.5	7803.6	6561.4
57.5°	4722.8	4849.9	5593.6	6824.8	7524.6	7645.3	7906.0	8040.5	8647.9	8754.9	7135.8
60°	4496.8	4596.5	5369.5	6866.0	8095.4	8576.5	8829.9	8968.9	9741.9	9811.4	7767.9
62.5°	4120.9	4235.2	4990.8	6578.7	8382.6	9322.0	9847.1	9784.9	10588.0	10636.5	8155.7
65°	3516.2	3526.3	4222.4	5857.0	8086.2	9805.9	10561.5	10300.8	10992.3	11025.2	8125.5
67.5°	2624.4	2721.3	3248.2	4603.8	6830.3	9392.4	10792.9	10314.5	10737.1	10645.6	7480.7
70°	1690.4	1764.5	2201.8	3192.4	4924.9	7838.3	10025.4	9607.4	9423.6	9220.5	6123.2
72.5°	780.3	875.4	1308.1	1824.0	2920.7	5583.5	8138.4	7805.4	6782.7	6281.5	3892.2
75°	340.3	364.1	645.8	962.3	1369.4	2952.7	5365.8	4845.3	3063.4	2798.2	1557.8
77.5°	207.6	223.2	338.5	515.9	537.9	1125.1	2890.5	2113.9	946.7	835.1	422.6
80°	140.9	158.2	246.1	269.8	183.9	313.8	1084.9	564.4	191.2	182.9	90.6
82.5°	68.6	86.9	182.0	150.9	79.6	100.6	315.6	120.7	55.8	52.1	32.0
85°	10.1	17.4	102.4	98.8	35.7	23.8	55.8	30.2	19.2	18.3	14.6
87.5°	0.0	0.0	34.8	15.6	3.7	3.7	6.4	6.4	7.3	6.4	7.3
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°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2388.4	2392.9	2375.6	2350.9	2324.3	2297.8	2260.3	2226.5	2206.3	2218.2	2188.9
5°	2431.4	2427.7	2382.0	2306.9	2207.2	2087.4	1968.5	1867.0	1834.0	1784.6	1779.2
7.5°	2490.8	2480.7	2383.8	2211.8	1986.8	1761.8	1542.2	1396.8	1313.6	1243.1	1244.9
10°	2574.1	2544.8	2362.7	2044.4	1674.0	1334.6	1054.7	862.6	779.4	752.8	731.8
12.5°	2660.0	2603.3	2304.2	1818.5	1303.5	912.0	641.2	524.1	472.9	456.5	454.6
15°	2736.9	2647.2	2201.8	1546.8	947.7	582.7	437.2	398.8	392.4	393.3	392.4
17.5°	2812.8	2682.0	2060.0	1258.7	644.0	418.0	376.0	366.8	369.6	373.2	372.3
20°	2875.9	2689.3	1878.9	960.5	455.5	366.8	353.1	351.3	354.0	356.7	356.7
22.5°	2944.5	2694.8	1663.9	665.0	372.3	341.2	333.9	333.9	337.5	341.2	342.1
25°	2995.7	2664.6	1406.9	477.5	328.4	316.5	312.8	313.8	317.4	319.2	318.3
27.5°	3004.0	2579.5	1134.3	365.9	298.2	286.3	282.7	286.3	281.7	284.5	282.7
30°	3011.3	2471.6	858.0	308.3	270.8	252.5	247.0	241.5	237.8	233.3	232.3
32.5°	3034.2	2344.5	626.6	277.2	245.1	225.0	212.2	196.7	184.8	181.1	180.2
35°	3044.2	2191.7	460.1	252.5	222.3	200.3	177.5	155.5	138.1	131.7	136.3
37.5°	3082.6	2043.5	356.7	234.2	202.2	174.7	145.4	118.0	101.5	97.9	99.7
40°	3161.3	1882.5	299.1	218.6	184.8	150.9	115.3	88.7	77.8	74.1	73.2
42.5°	3287.5	1722.4	266.2	204.0	167.4	127.1	90.6	69.5	60.4	57.6	57.6
45°	3441.2	1568.8	243.3	188.4	149.1	102.4	71.3	55.8	50.3	48.5	48.5
47.5°	3643.4	1434.3	224.1	172.9	129.0	81.4	57.6	48.5	44.8	45.7	46.7
50°	3848.3	1334.6	203.1	155.5	106.1	66.8	49.4	43.0	42.1	43.0	43.0
52.5°	4002.9	1276.0	174.7	131.7	83.2	55.8	43.9	40.2	39.3	37.5	37.5
55°	4211.4	1263.2	139.0	107.0	65.9	46.7	39.3	36.6	33.8	32.0	31.1
57.5°	4479.4	1277.9	107.0	83.2	51.2	38.4	34.8	30.2	26.5	22.9	22.9
60°	4645.9	1244.9	83.2	64.0	37.5	31.1	26.5	22.0	17.4	14.6	13.7
62.5°	4592.9	1105.9	65.9	47.6	26.5	22.9	17.4	14.6	10.1	7.3	6.4
65°	4319.4	892.8	53.1	32.9	19.2	13.7	9.1	9.1	4.6	0.9	0.0
67.5°	3780.6	661.3	42.1	22.0	11.0	6.4	4.6	2.7	0.0	0.0	0.0
70°	3077.2	477.5	32.9	13.7	6.4	4.6	1.8	0.9	0.0	0.0	0.0
72.5°	1953.9	273.5	25.6	8.2	4.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	755.6	107.0	17.4	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	214.0	50.3	10.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.8	22.0	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.6	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	0.9	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)