

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: P526551

Luminaire Tested: **GALN-SA1C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4285 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

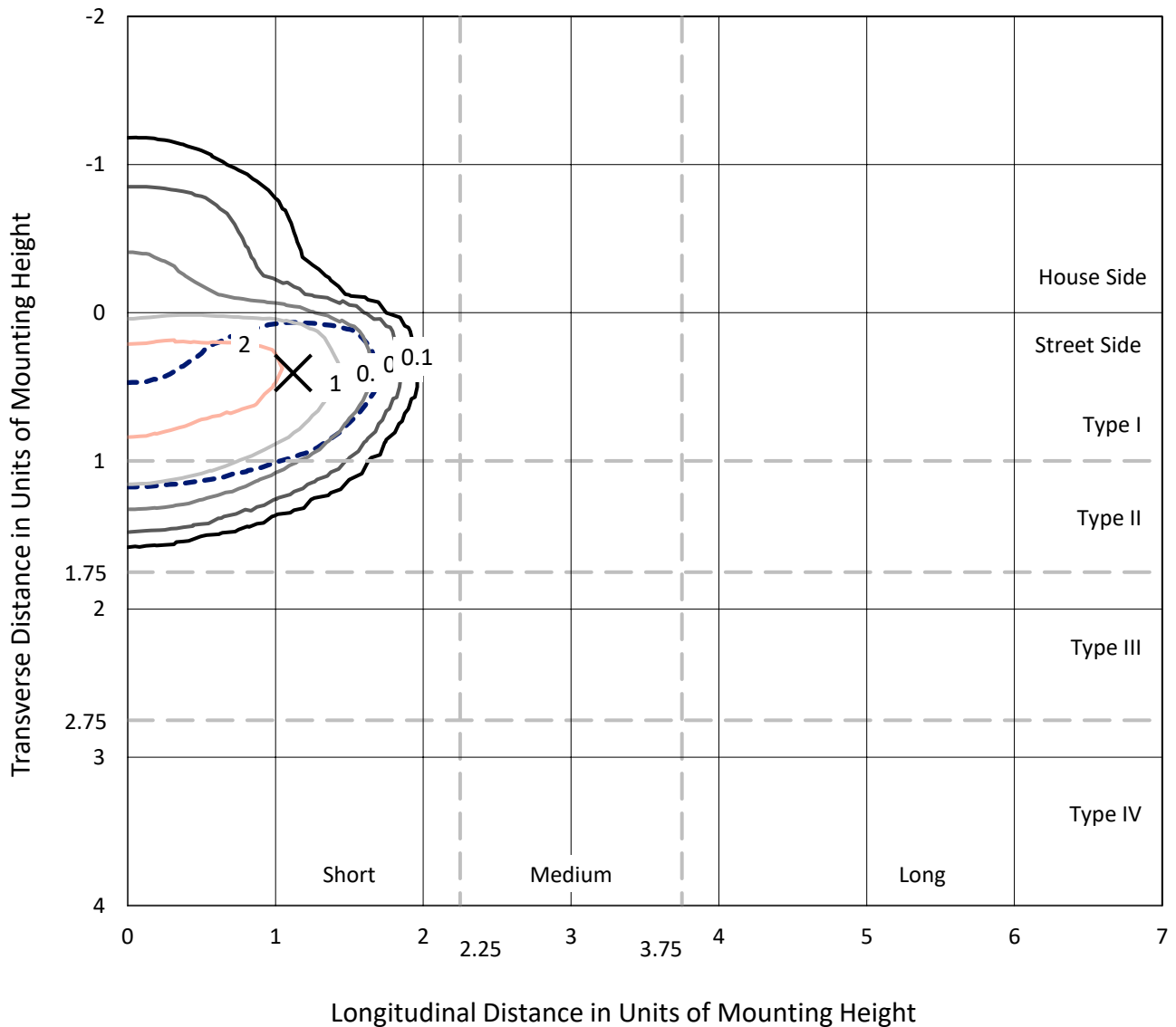
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

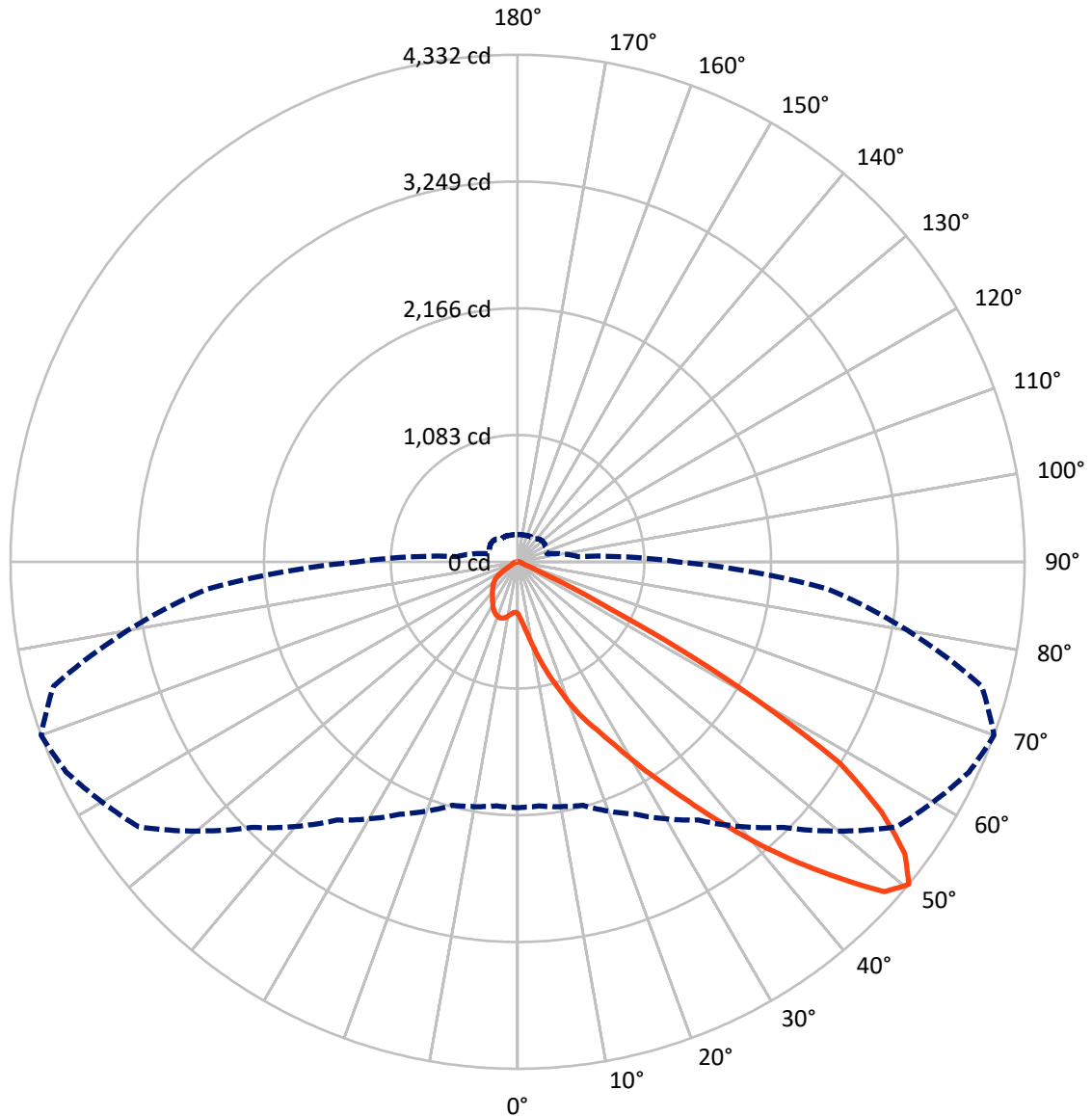
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	598.4	0.0	598.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	3686.6	0.0	3686.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	1.3
10°-20°	249.7	5.8
20°-30°	523.7	12.2
30°-40°	902.7	21.1
40°-50°	1319.4	30.8
50°-60°	1027.6	24.0
60°-70°	174.1	4.1
70°-80°	23.9	0.6
80°-90°	6.2	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°	4285.0	100.0
0°-180°	4285.0	100.0

**Coefficient of Utilization**

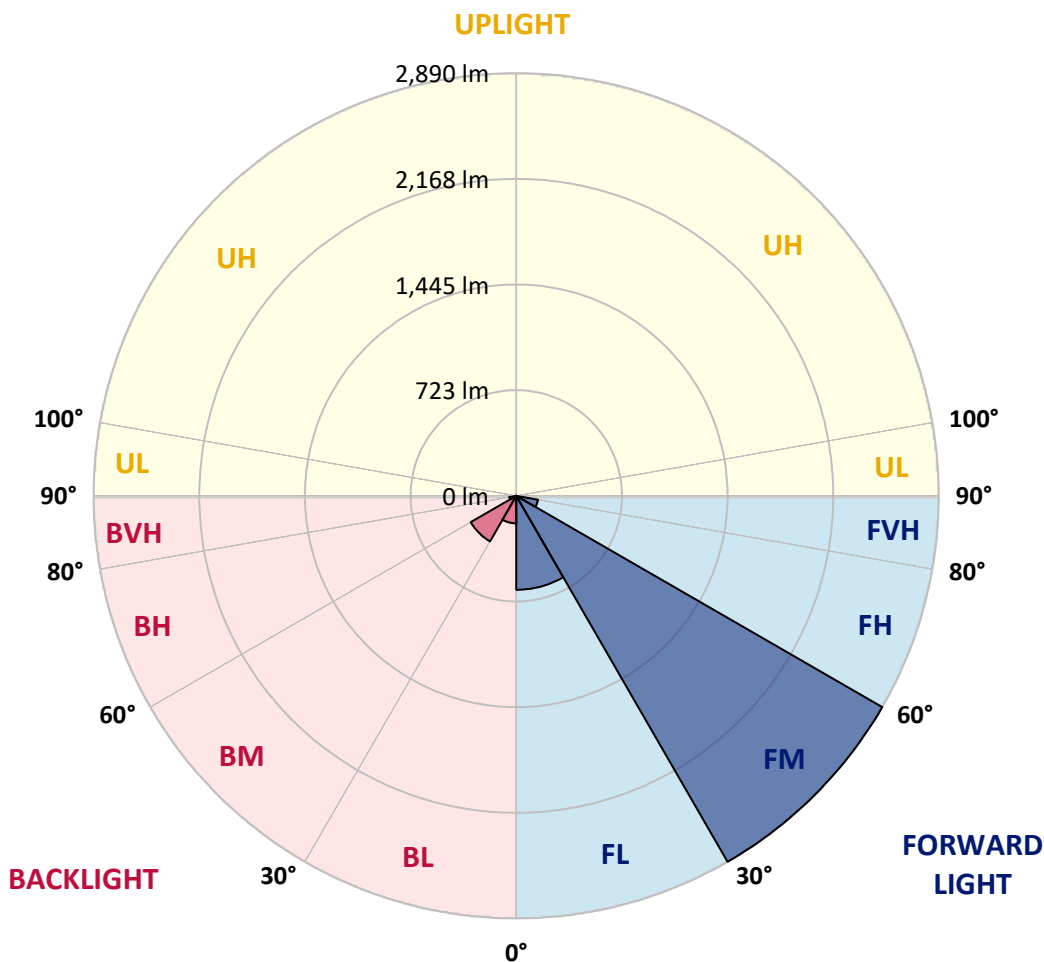


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.8	15.0			
FM (30°-60°)	2890.2	67.4			
FH (60°-80°)	150.7	3.5			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	188.3	4.4	B1/500		
BM (30°-60°)	359.5	8.4	B1/1000		
BH (60°-80°)	47.3	1.1	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	581.2	577.0	567.8	550.9	543.9	527.0	517.1	498.1	486.1	472.7	457.9
5°	818.6	796.8	783.4	764.4	708.7	674.2	617.2	568.5	546.0	521.3	487.5
7.5°	1063.8	1049.7	1031.4	990.5	952.5	880.6	782.7	675.6	629.8	587.6	520.6
10°	1266.7	1227.3	1225.1	1194.8	1153.3	1067.3	949.7	816.5	734.8	672.8	567.8
12.5°	1408.3	1372.4	1388.6	1385.1	1346.3	1267.4	1131.4	955.3	870.1	773.6	616.4
15°	1537.2	1522.4	1517.5	1513.3	1497.8	1439.3	1317.4	1124.4	1001.1	884.9	671.4
17.5°	1663.3	1625.3	1643.6	1647.1	1645.7	1592.9	1478.8	1285.0	1139.9	1002.5	729.2
20°	1775.4	1778.9	1754.2	1749.3	1745.1	1743.0	1631.6	1444.2	1310.4	1125.8	804.6
22.5°	1919.1	1894.4	1916.3	1902.2	1874.7	1857.8	1772.5	1585.1	1458.3	1274.5	881.3
25°	2088.9	2108.6	2057.2	2051.5	2021.2	1962.8	1886.0	1743.0	1600.6	1412.5	964.5
27.5°	2298.1	2263.6	2250.2	2219.2	2164.3	2139.6	2049.4	1905.7	1772.5	1557.7	1044.8
30°	2477.8	2468.6	2401.7	2365.0	2317.1	2316.4	2190.3	2126.2	1996.6	1785.2	1155.4
32.5°	2624.3	2584.1	2559.5	2534.1	2495.4	2505.9	2399.6	2365.7	2235.4	1996.6	1285.7
35°	2722.2	2693.3	2678.5	2639.8	2628.5	2675.7	2631.3	2617.3	2510.2	2293.9	1438.6
37.5°	2753.2	2762.4	2759.6	2711.0	2734.9	2862.4	2919.5	2882.9	2826.5	2607.4	1604.2
40°	2780.7	2787.0	2773.0	2830.0	2898.4	3043.5	3249.9	3189.3	3168.2	2925.1	1834.5
42.5°	2796.2	2791.3	2791.3	2889.9	2993.5	3285.1	3569.1	3528.9	3512.7	3263.3	2100.9
45°	2729.3	2681.4	2732.8	2866.7	3075.2	3404.2	3824.1	3879.7	3856.5	3665.6	2412.2
47.5°	2479.2	2508.8	2537.6	2716.6	2975.9	3367.6	3980.5	4170.0	4213.0	4003.7	2616.6
50°	2100.9	2094.5	2154.4	2379.8	2694.8	3209.7	3950.2	4253.8	4332.0	4105.2	2659.5
52.5°	1528.1	1574.6	1639.4	1863.4	2236.8	2801.1	3559.2	4037.5	4141.8	3980.5	2631.3
55°	889.8	838.4	984.2	1173.7	1526.0	2112.8	3009.0	3578.9	3771.9	3753.6	2489.0
57.5°	356.5	345.2	395.2	532.6	796.1	1309.7	2188.2	2940.6	3249.9	3438.0	2187.5
60°	156.4	152.9	179.7	217.0	325.5	603.8	1197.0	1828.9	2151.6	2402.4	1505.5
62.5°	112.7	111.3	124.7	138.1	171.9	262.8	503.0	736.9	918.7	1109.6	674.2
65°	90.9	94.4	103.6	110.6	126.8	145.8	177.5	205.0	251.5	260.7	148.7
67.5°	74.0	76.8	85.2	93.0	95.8	78.9	81.7	71.9	71.9	64.1	51.4
70°	54.2	55.0	64.8	74.0	59.2	31.7	55.7	55.7	50.0	47.9	43.7
72.5°	40.2	40.9	48.6	45.8	23.2	19.7	40.9	45.1	40.9	38.7	35.2
75°	29.6	30.3	25.4	10.6	9.9	12.7	24.0	31.0	29.6	28.9	26.8
77.5°	5.6	4.2	3.5	4.9	7.0	10.6	15.5	19.0	19.7	21.1	19.7
80°	0.7	0.7	2.1	4.2	7.7	11.3	16.2	18.3	19.0	19.7	18.3
82.5°	0.0	0.7	2.1	4.2	7.7	10.6	14.1	16.2	17.6	18.3	17.6
85°	0.0	0.7	1.4	3.5	6.3	7.7	7.0	4.9	4.2	4.9	3.5
87.5°	0.0	0.0	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	449.5	446.7	436.8	426.2	417.1	421.3	417.1	413.5	415.0	413.5	412.1
5°	474.1	461.5	440.3	431.2	423.4	422.7	420.6	419.9	420.6	420.6	414.3
7.5°	497.4	477.0	454.4	444.5	435.4	436.1	431.2	431.2	430.5	426.9	425.5
10°	532.6	505.1	476.2	458.6	447.4	445.3	440.3	435.4	435.4	435.4	428.3
12.5°	571.4	536.8	497.4	477.0	463.6	453.0	445.3	443.8	436.1	434.7	431.2
15°	605.2	561.5	511.5	483.3	466.4	452.3	440.3	432.6	429.0	426.9	424.1
17.5°	638.3	582.6	519.2	483.3	465.0	448.8	436.1	429.0	420.6	422.0	416.4
20°	682.7	605.2	521.3	474.1	451.6	436.1	419.2	415.7	410.7	406.5	407.9
22.5°	725.6	621.4	515.0	462.9	430.5	412.1	403.7	399.5	397.3	393.8	388.9
25°	764.4	639.0	505.1	442.4	407.9	394.5	386.8	386.1	381.1	381.1	372.0
27.5°	803.8	645.3	488.2	418.5	388.2	380.4	376.9	375.5	373.4	368.5	362.1
30°	848.9	647.4	463.6	393.8	370.6	362.1	367.0	370.6	361.4	352.3	355.1
32.5°	886.3	642.5	434.0	370.6	357.9	353.7	363.5	367.0	356.5	346.6	341.7
35°	931.4	630.5	405.1	352.3	345.2	353.7	362.1	362.1	341.0	329.0	326.2
37.5°	999.7	617.2	378.3	336.8	331.8	349.4	360.7	353.0	319.8	305.1	301.5
40°	1073.0	608.7	352.3	321.3	324.8	342.4	348.7	324.8	291.0	281.8	279.0
42.5°	1179.4	591.8	329.0	307.9	318.4	332.5	332.5	289.6	276.9	271.9	271.2
45°	1311.8	579.8	308.6	296.6	309.3	312.8	301.5	271.2	262.1	260.7	261.4
47.5°	1376.6	556.6	287.4	283.2	292.4	293.1	263.5	256.4	248.7	246.6	245.2
50°	1366.8	515.0	260.0	265.6	278.3	271.2	240.2	241.6	234.6	233.9	230.4
52.5°	1297.7	449.5	232.5	245.9	260.0	239.5	221.2	219.8	219.8	210.6	207.1
55°	1150.5	362.1	199.4	216.3	233.2	201.5	196.6	195.1	191.6	183.2	181.1
57.5°	910.9	265.6	150.1	168.4	198.0	171.2	170.5	164.2	155.0	148.7	148.7
60°	541.8	152.9	94.4	102.9	131.0	138.8	154.3	151.5	136.0	126.1	123.3
62.5°	247.3	78.9	59.9	61.3	70.5	90.2	121.2	140.2	118.4	101.4	100.0
65°	83.1	58.5	49.3	47.2	48.6	54.2	72.6	99.3	94.4	78.2	75.4
67.5°	50.7	52.1	46.5	43.0	43.0	42.3	41.6	45.1	55.7	54.2	55.0
70°	43.7	47.9	43.0	38.7	37.3	35.2	29.6	24.7	21.1	24.7	26.1
72.5°	35.2	38.0	36.6	33.1	29.6	26.8	21.1	16.2	12.0	10.6	10.6
75°	26.1	28.2	29.6	25.4	22.5	19.0	15.5	10.6	6.3	4.2	4.2
77.5°	19.0	21.1	21.8	19.7	16.9	13.4	9.9	7.0	3.5	1.4	1.4
80°	16.2	19.0	21.1	19.7	17.6	12.7	9.2	4.9	2.8	0.7	0.7
82.5°	15.5	19.0	21.1	19.0	16.9	12.0	9.2	5.6	2.1	0.7	0.7
85°	3.5	4.9	6.3	7.7	9.2	9.2	7.0	4.2	2.1	0.7	0.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	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)