

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: P454045

Luminaire Tested: **GALN-SA5A-760-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16567 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

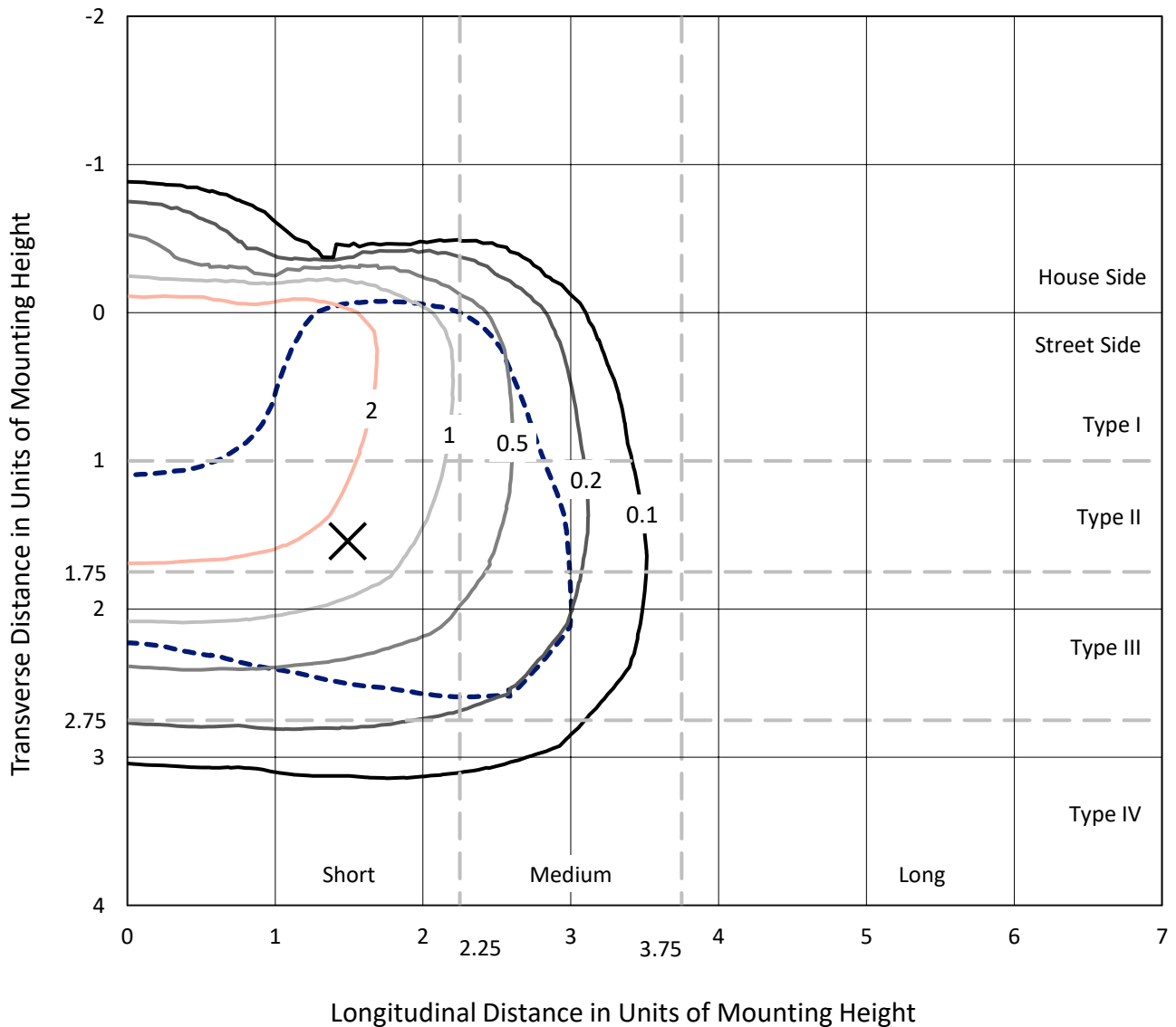
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

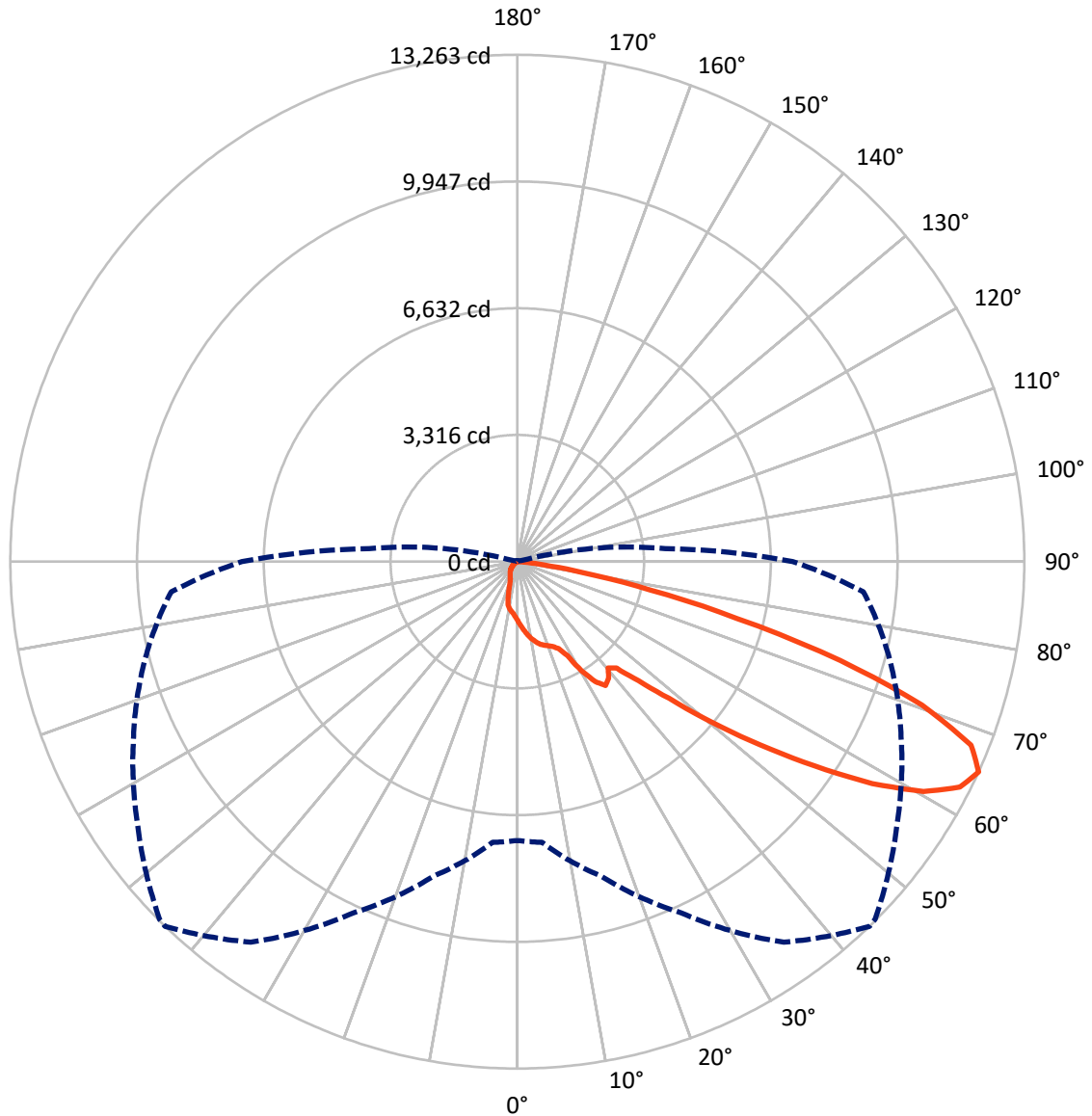
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1526.4	0.0	1526.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	15040.6	0.0	15040.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	16567.0	0.0	16567.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	0.9
10°-20°	461.6	2.8
20°-30°	782.6	4.7
30°-40°	1301.3	7.9
40°-50°	2272.0	13.7
50°-60°	4438.7	26.8
60°-70°	5150.0	31.1
70°-80°	1875.4	11.3
80°-90°	132.1	0.8
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°	16567.0	100.0
0°-180°	16567.0	100.0



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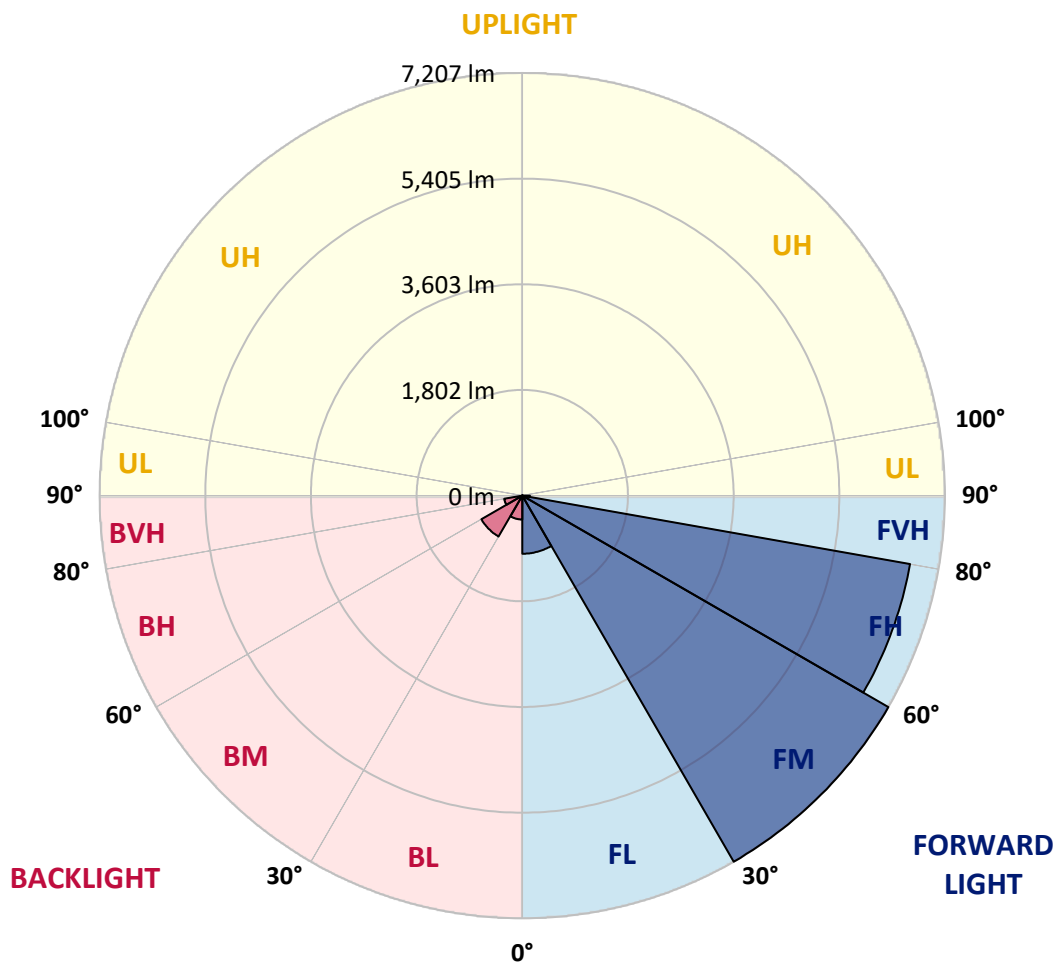
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.9	6.0			
FM (30°-60°)	7206.7	43.5			
FH (60°-80°)	6712.7	40.5			G3/7500
FVH (80°-90°)	130.3	0.8			G2/225
BL (0°-30°)	406.7	2.5	B1/500		
BM (30°-60°)	805.3	4.9	B1/1000		
BH (60°-80°)	312.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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°	44°	45°	55°	65°	75°	85°
0°	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1735.6	1728.0	1724.2	1703.9	1688.7	1669.8	1669.8	1645.7	1617.8	1587.5	1559.6
5°	1929.3	1916.6	1900.1	1882.4	1847.0	1796.3	1796.3	1745.7	1687.5	1635.6	1578.6
7.5°	2115.4	2104.0	2076.1	2041.9	1983.7	1930.5	1926.7	1853.3	1783.7	1705.2	1624.2
10°	2278.7	2269.8	2245.7	2179.9	2119.2	2049.5	2048.3	1966.0	1885.0	1788.7	1688.7
12.5°	2392.6	2393.9	2362.2	2298.9	2220.4	2154.6	2149.5	2068.5	1983.7	1879.9	1757.1
15°	2473.6	2473.6	2440.7	2369.8	2298.9	2240.7	2235.6	2164.7	2077.4	1964.7	1831.8
17.5°	2496.4	2504.0	2468.5	2405.3	2348.3	2297.6	2296.4	2236.9	2167.3	2058.4	1907.7
20°	2487.5	2495.1	2467.3	2417.9	2378.7	2349.6	2345.8	2321.7	2257.1	2154.6	1988.8
22.5°	2468.5	2476.1	2455.9	2426.8	2407.8	2416.6	2410.3	2430.6	2396.4	2272.3	2085.0
25°	2472.3	2479.9	2464.8	2448.3	2464.8	2519.2	2535.6	2623.0	2592.6	2421.7	2188.8
27.5°	2591.3	2606.5	2585.0	2592.6	2650.8	2777.4	2809.1	2959.7	2825.5	2611.6	2350.8
30°	2855.9	2845.8	2805.3	2842.0	3044.5	3312.9	3304.1	3280.0	3069.9	2830.6	2543.2
32.5°	3096.4	3087.6	3085.1	3243.3	3610.4	3740.8	3734.5	3501.5	3288.9	3081.3	2733.1
35°	3193.9	3159.7	3152.1	3535.7	4149.7	3977.5	3938.3	3592.7	3554.7	3354.7	2926.8
37.5°	3487.6	3463.6	3345.8	3583.8	3934.5	3877.5	3847.1	3749.7	3838.3	3596.5	3145.8
40°	4092.7	4025.6	3919.3	3686.4	3629.4	3653.5	3683.8	3950.9	4173.7	3926.9	3438.2
42.5°	4844.7	4829.5	4632.0	4197.8	3771.2	3804.1	3843.3	4371.2	4656.1	4424.4	3915.5
45°	5747.3	5768.8	5484.0	4971.3	4411.7	4439.6	4496.6	4991.5	5309.3	5197.9	4666.2
47.5°	6567.6	6551.1	6454.9	5922.0	5405.5	5343.5	5435.9	5787.8	6213.1	6230.9	5597.9
50°	7393.0	7480.3	7337.3	7128.4	6744.8	6614.4	6580.3	6752.4	7400.6	7315.8	6717.0
52.5°	8579.2	8624.7	8356.4	8303.2	8390.5	7967.7	7933.5	7975.3	8555.1	8263.9	7555.0
55°	9324.8	9298.2	9198.2	9613.4	9959.0	9431.1	9388.1	9219.7	9513.4	8933.6	8361.4
57.5°	9560.2	9598.2	9831.2	10581.8	11399.6	10951.5	10873.0	10394.5	10204.6	9557.7	9103.2
60°	9455.2	9524.8	10027.4	11143.9	12278.2	12211.1	12144.0	11340.1	10700.8	10079.3	9623.5
62.5°	8707.0	8804.5	9608.4	11043.9	12575.7	12994.7	12911.1	11930.1	11031.2	10332.5	9714.7
65°	7296.8	7368.9	8523.5	10136.2	12152.9	13263.1	13232.7	12114.9	11083.2	10100.8	9090.6
67.5°	5201.7	5447.3	6517.0	8542.4	10902.1	12804.8	12856.7	11893.3	10595.8	9099.5	7528.4
70°	3269.9	3437.0	4204.1	6115.7	8739.9	11233.8	11404.7	10879.3	9195.7	7093.0	5039.6
72.5°	1559.6	1683.7	2230.6	3871.2	6168.8	8838.7	8974.1	8931.1	7110.7	4468.7	2600.2
75°	695.0	741.8	1064.6	1976.1	3982.6	5941.0	6291.6	6349.9	4443.4	2186.2	1011.5
77.5°	354.5	355.7	498.8	957.0	1988.8	3544.6	3614.2	3818.0	2409.1	963.4	351.9
80°	188.6	201.3	264.6	451.9	1031.7	1745.7	1736.8	1909.0	1068.4	472.2	117.7
82.5°	84.8	93.7	149.4	236.7	503.8	662.1	714.0	781.1	458.3	301.3	51.9
85°	25.3	30.4	73.4	119.0	182.3	191.2	213.9	276.0	259.5	213.9	26.6
87.5°	3.8	3.8	30.4	32.9	26.6	34.2	35.4	39.2	83.6	78.5	13.9
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°	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1544.4	1535.6	1503.9	1477.3	1454.5	1440.6	1424.2	1414.0	1409.0	1405.2	1406.4
5°	1550.8	1529.2	1474.8	1431.8	1398.8	1363.4	1339.3	1325.4	1319.1	1309.0	1309.0
7.5°	1586.2	1552.0	1476.1	1410.2	1353.3	1305.2	1259.6	1243.1	1231.7	1229.2	1226.7
10°	1636.8	1593.8	1490.0	1398.8	1317.8	1252.0	1187.4	1130.5	1086.2	1059.6	1055.8
12.5°	1700.1	1638.1	1511.5	1391.2	1287.4	1171.0	1000.1	884.9	807.7	783.6	787.4
15°	1758.4	1691.3	1533.0	1384.9	1231.7	971.0	777.3	645.6	606.4	602.6	603.8
17.5°	1828.0	1748.2	1558.4	1376.1	1078.6	741.8	577.3	541.8	549.4	562.1	560.8
20°	1900.1	1809.0	1588.7	1322.9	860.8	558.3	510.2	514.0	525.4	536.8	539.3
22.5°	1977.4	1878.6	1624.2	1195.0	657.0	486.1	483.6	488.6	500.0	512.7	515.2
25°	2083.7	1966.0	1650.8	1027.9	497.5	449.4	454.5	463.3	473.5	487.4	489.9
27.5°	2220.4	2083.7	1664.7	810.2	430.4	416.5	417.8	430.4	443.1	455.7	455.7
30°	2397.7	2224.2	1636.8	612.7	397.5	384.8	379.8	387.4	403.8	416.5	417.8
32.5°	2555.9	2357.1	1563.4	468.4	373.4	355.7	343.1	344.3	350.7	358.3	359.5
35°	2714.1	2486.3	1438.1	393.7	348.1	327.9	308.9	298.8	293.7	289.9	293.7
37.5°	2916.7	2647.0	1271.0	358.3	326.6	301.3	274.7	253.2	235.5	224.1	226.6
40°	3177.5	2869.8	1073.5	335.5	306.4	276.0	240.5	212.7	182.3	172.2	167.1
42.5°	3607.9	3207.8	865.9	316.5	286.1	249.4	205.1	167.1	139.3	129.1	131.7
45°	4287.7	3634.5	667.1	296.2	265.8	220.3	172.2	131.7	108.9	103.8	106.3
47.5°	5189.0	4186.4	514.0	273.4	240.5	188.6	135.5	103.8	89.9	88.6	87.3
50°	6037.2	4700.4	429.1	248.1	210.1	157.0	111.4	87.3	78.5	77.2	77.2
52.5°	6804.3	5068.8	349.4	219.0	177.2	129.1	93.7	77.2	69.6	65.8	65.8
55°	7486.7	5309.3	283.6	183.6	139.3	102.5	81.0	69.6	60.8	55.7	54.4
57.5°	8001.9	5338.4	212.7	146.8	103.8	79.8	69.6	60.8	50.6	44.3	41.8
60°	8222.2	5086.5	157.0	111.4	77.2	63.3	55.7	49.4	38.0	31.6	30.4
62.5°	8000.6	4596.6	116.5	84.8	59.5	46.8	39.2	36.7	26.6	19.0	17.7
65°	7206.9	3888.9	92.4	64.6	44.3	34.2	25.3	24.1	16.5	8.9	7.6
67.5°	5773.9	3045.8	73.4	48.1	31.6	22.8	16.5	15.2	8.9	2.5	2.5
70°	3754.7	1947.0	59.5	35.4	20.3	15.2	10.1	7.6	5.1	1.3	0.0
72.5°	1857.1	910.2	48.1	27.9	13.9	7.6	3.8	2.5	3.8	0.0	0.0
75°	720.3	324.1	35.4	19.0	7.6	3.8	2.5	0.0	1.3	0.0	0.0
77.5°	239.3	107.6	21.5	10.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0
80°	88.6	41.8	11.4	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.5	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	10.1	5.1	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	7.6	5.1	3.8	2.5	1.3	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)