

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: P451402

Luminaire Tested: **GALN-SA2B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451402
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-SA2B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 8159 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

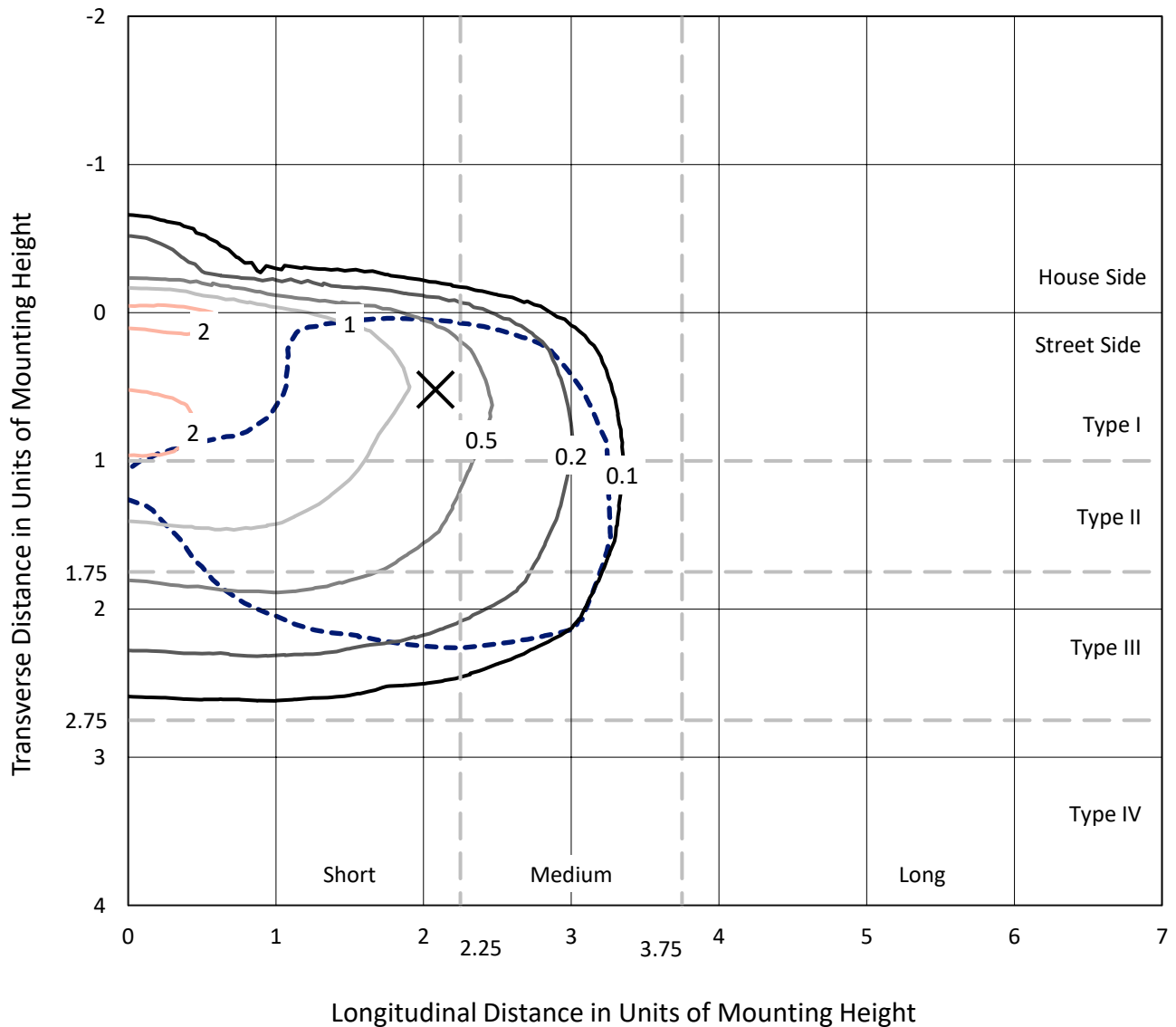
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451402
 CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

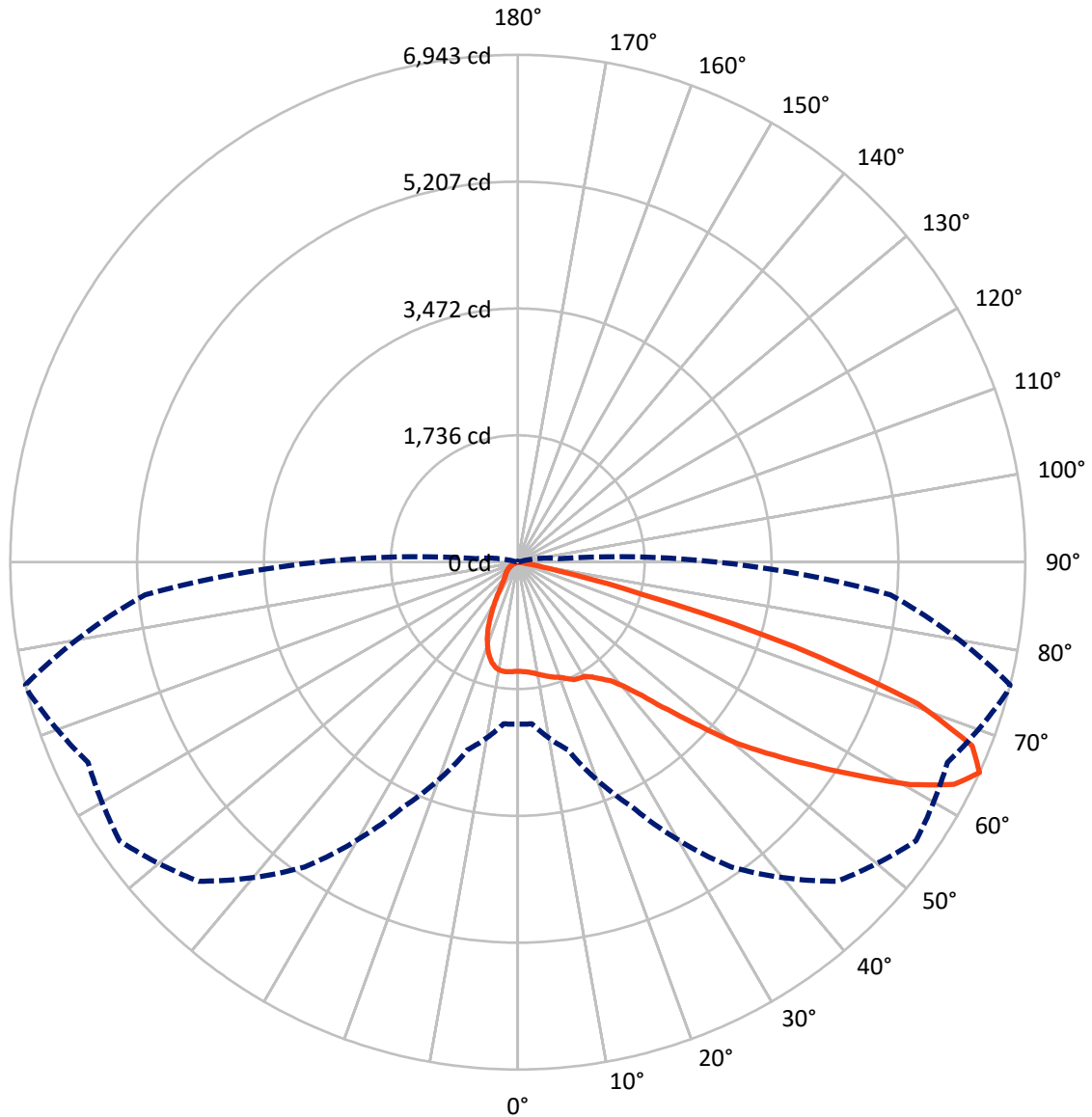
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451402
CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451402

CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.2	0.0	589.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7569.7	0.0	7569.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	8159.0	0.0	8159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	1.5
10°-20°	273.8	3.4
20°-30°	441.1	5.4
30°-40°	767.0	9.4
40°-50°	1267.5	15.5
50°-60°	1958.0	24.0
60°-70°	2391.0	29.3
70°-80°	907.4	11.1
80°-90°	30.3	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°	8159.0	100.0
0°-180°	8159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451402

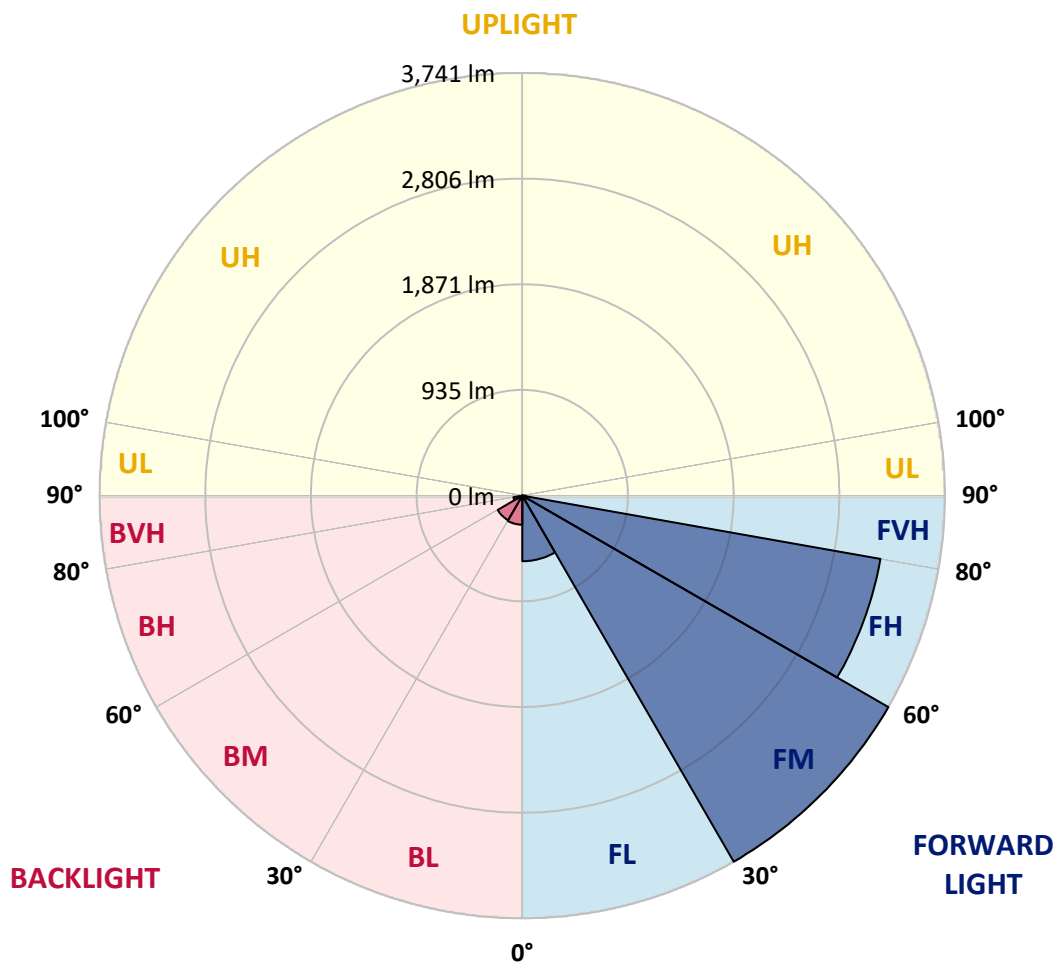
CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	7.1			
FM (30°-60°)	3741.0	45.9			
FH (60°-80°)	3218.4	39.4			G2/5000
FVH (80°-90°)	29.9	0.4			G1/100
BL (0°-30°)	257.4	3.2	B1/500		
BM (30°-60°)	251.4	3.1	B1/1000		
BH (60°-80°)	79.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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-G2

Type III Short





REPORT NUMBER: P451402

CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1426.3	1426.9	1430.3	1439.0	1452.2	1463.2	1472.4	1487.4	1497.7	1498.9	1502.3
5°	1327.8	1320.9	1327.8	1350.3	1370.4	1400.9	1438.4	1475.8	1509.2	1511.6	1527.7
7.5°	1217.2	1223.0	1233.9	1256.9	1295.0	1341.6	1395.8	1462.6	1526.0	1531.7	1563.4
10°	1104.9	1117.5	1135.4	1170.5	1223.5	1284.0	1357.7	1453.4	1552.5	1560.5	1615.2
12.5°	1001.2	1006.9	1028.8	1076.1	1141.7	1227.0	1328.9	1448.2	1581.8	1591.6	1670.5
15°	921.7	929.2	948.2	990.8	1064.0	1173.4	1305.3	1446.5	1610.6	1624.5	1725.8
17.5°	906.7	911.3	919.4	948.2	1012.1	1130.8	1284.0	1445.9	1638.3	1655.0	1777.1
20°	968.3	964.3	956.2	953.4	988.5	1097.9	1268.5	1450.5	1664.8	1683.8	1831.3
22.5°	1122.7	1127.9	1080.7	1024.8	1013.3	1092.8	1266.2	1472.4	1706.8	1729.3	1891.7
25°	1450.5	1410.7	1337.0	1203.4	1102.6	1124.4	1292.1	1524.2	1755.8	1780.6	1946.5
27.5°	1812.8	1800.7	1686.1	1466.0	1278.3	1191.3	1338.2	1564.0	1771.9	1797.3	1977.6
30°	2168.8	2183.2	2051.9	1808.8	1533.4	1315.1	1381.4	1578.9	1786.3	1812.8	2017.3
32.5°	2498.9	2516.2	2401.0	2160.2	1834.1	1529.4	1455.7	1637.1	1846.8	1873.9	2083.6
35°	2758.7	2761.0	2674.0	2482.2	2162.5	1789.8	1616.4	1739.1	1928.6	1960.3	2153.8
37.5°	2997.2	2993.7	2891.8	2726.4	2436.1	2048.4	1818.6	1856.6	2021.9	2054.8	2255.2
40°	3174.0	3176.3	3143.5	2988.0	2691.3	2287.5	1978.7	1966.6	2178.6	2229.9	2402.7
42.5°	3292.1	3313.4	3329.6	3250.6	3012.2	2581.8	2224.7	2202.2	2450.5	2493.1	2611.2
45°	3387.7	3425.8	3506.4	3502.4	3320.3	2943.0	2562.3	2516.2	2835.9	2881.4	2876.8
47.5°	3457.4	3496.0	3629.7	3710.3	3610.1	3293.3	2986.8	2947.1	3296.1	3345.7	3170.0
50°	3493.2	3539.2	3709.8	3865.9	3836.5	3630.8	3470.7	3473.0	3852.0	3899.8	3509.9
52.5°	3409.6	3469.5	3752.4	4033.5	4090.5	3954.0	3924.0	4000.1	4346.9	4387.8	3816.9
55°	3142.9	3218.4	3694.2	4176.4	4384.9	4335.3	4439.0	4554.8	4887.8	4914.3	4132.0
57.5°	2974.1	3054.2	3522.5	4297.9	4738.6	4814.6	4978.8	5063.5	5446.0	5513.4	4493.8
60°	2831.9	2894.6	3381.4	4323.8	5098.0	5401.0	5560.6	5648.2	6134.9	6178.7	4891.8
62.5°	2595.1	2667.1	3142.9	4142.9	5278.9	5870.5	6201.2	6162.0	6667.8	6698.3	5136.0
65°	2214.3	2220.7	2659.0	3688.4	5092.3	6175.2	6651.1	6486.9	6922.4	6943.1	5117.0
67.5°	1652.7	1713.7	2045.5	2899.3	4301.4	5914.9	6796.8	6495.5	6761.7	6704.1	4710.9
70°	1064.5	1111.2	1386.5	2010.4	3101.4	4936.2	6313.5	6050.2	5934.5	5806.6	3856.1
72.5°	491.4	551.3	823.7	1148.6	1839.3	3516.2	5125.1	4915.4	4271.4	3955.7	2451.1
75°	214.3	229.3	406.7	606.0	862.3	1859.5	3379.1	3051.3	1929.2	1762.1	981.0
77.5°	130.8	140.6	213.1	324.9	338.7	708.5	1820.3	1331.2	596.2	525.9	266.1
80°	88.7	99.7	155.0	169.9	115.8	197.6	683.2	355.4	120.4	115.2	57.0
82.5°	43.2	54.7	114.6	95.0	50.1	63.4	198.7	76.0	35.1	32.8	20.2
85°	6.3	10.9	64.5	62.2	22.5	15.0	35.1	19.0	12.1	11.5	9.2
87.5°	0.0	0.0	21.9	9.8	2.3	2.3	4.0	4.0	4.6	4.0	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451402

CATALOG NUMBER: GALN-SA2B-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1504.1	1506.9	1496.0	1480.4	1463.7	1447.0	1423.4	1402.1	1389.4	1396.9	1378.5
5°	1531.1	1528.8	1500.0	1452.8	1390.0	1314.5	1239.7	1175.7	1155.0	1123.9	1120.4
7.5°	1568.6	1562.2	1501.2	1392.9	1251.2	1109.5	971.2	879.6	827.2	782.8	784.0
10°	1621.0	1602.6	1487.9	1287.5	1054.2	840.5	664.2	543.2	490.8	474.1	460.8
12.5°	1675.1	1639.4	1451.1	1145.2	820.9	574.3	403.8	330.1	297.8	287.4	286.3
15°	1723.5	1667.1	1386.5	974.1	596.8	366.9	275.4	251.2	247.1	247.7	247.1
17.5°	1771.3	1689.0	1297.3	792.6	405.5	263.3	236.8	231.0	232.7	235.0	234.5
20°	1811.1	1693.6	1183.2	604.9	286.9	231.0	222.4	221.2	222.9	224.7	224.7
22.5°	1854.3	1697.0	1047.8	418.8	234.5	214.9	210.3	210.3	212.6	214.9	215.4
25°	1886.6	1678.0	886.0	300.7	206.8	199.3	197.0	197.6	199.9	201.0	200.5
27.5°	1891.7	1624.5	714.3	230.4	187.8	180.3	178.0	180.3	177.4	179.2	178.0
30°	1896.4	1556.5	540.3	194.1	170.5	159.0	155.5	152.1	149.8	146.9	146.3
32.5°	1910.8	1476.4	394.6	174.5	154.4	141.7	133.6	123.9	116.4	114.1	113.5
35°	1917.1	1380.2	289.8	159.0	140.0	126.2	111.8	97.9	87.0	83.0	85.8
37.5°	1941.3	1286.9	224.7	147.5	127.3	110.0	91.6	74.3	63.9	61.6	62.8
40°	1990.8	1185.5	188.4	137.7	116.4	95.0	72.6	55.9	49.0	46.7	46.1
42.5°	2070.3	1084.7	167.6	128.5	105.4	80.1	57.0	43.8	38.0	36.3	36.3
45°	2167.1	987.9	153.2	118.7	93.9	64.5	44.9	35.1	31.7	30.5	30.5
47.5°	2294.4	903.2	141.1	108.9	81.2	51.3	36.3	30.5	28.2	28.8	29.4
50°	2423.4	840.5	127.9	97.9	66.8	42.1	31.1	27.1	26.5	27.1	27.1
52.5°	2520.8	803.6	110.0	83.0	52.4	35.1	27.7	25.3	24.8	23.6	23.6
55°	2652.1	795.5	87.6	67.4	41.5	29.4	24.8	23.0	21.3	20.2	19.6
57.5°	2820.9	804.7	67.4	52.4	32.3	24.2	21.9	19.0	16.7	14.4	14.4
60°	2925.7	784.0	52.4	40.3	23.6	19.6	16.7	13.8	10.9	9.2	8.6
62.5°	2892.3	696.4	41.5	30.0	16.7	14.4	10.9	9.2	6.3	4.6	4.0
65°	2720.1	562.2	33.4	20.7	12.1	8.6	5.8	5.8	2.9	0.6	0.0
67.5°	2380.8	416.5	26.5	13.8	6.9	4.0	2.9	1.7	0.0	0.0	0.0
70°	1937.8	300.7	20.7	8.6	4.0	2.9	1.2	0.6	0.0	0.0	0.0
72.5°	1230.4	172.2	16.1	5.2	2.9	1.2	0.0	0.0	0.0	0.0	0.0
75°	475.8	67.4	10.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	134.8	31.7	6.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.1	13.8	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.6	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)