

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: P452214

Luminaire Tested: **GALN-SA3A-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452214
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-SA3A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 7857 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

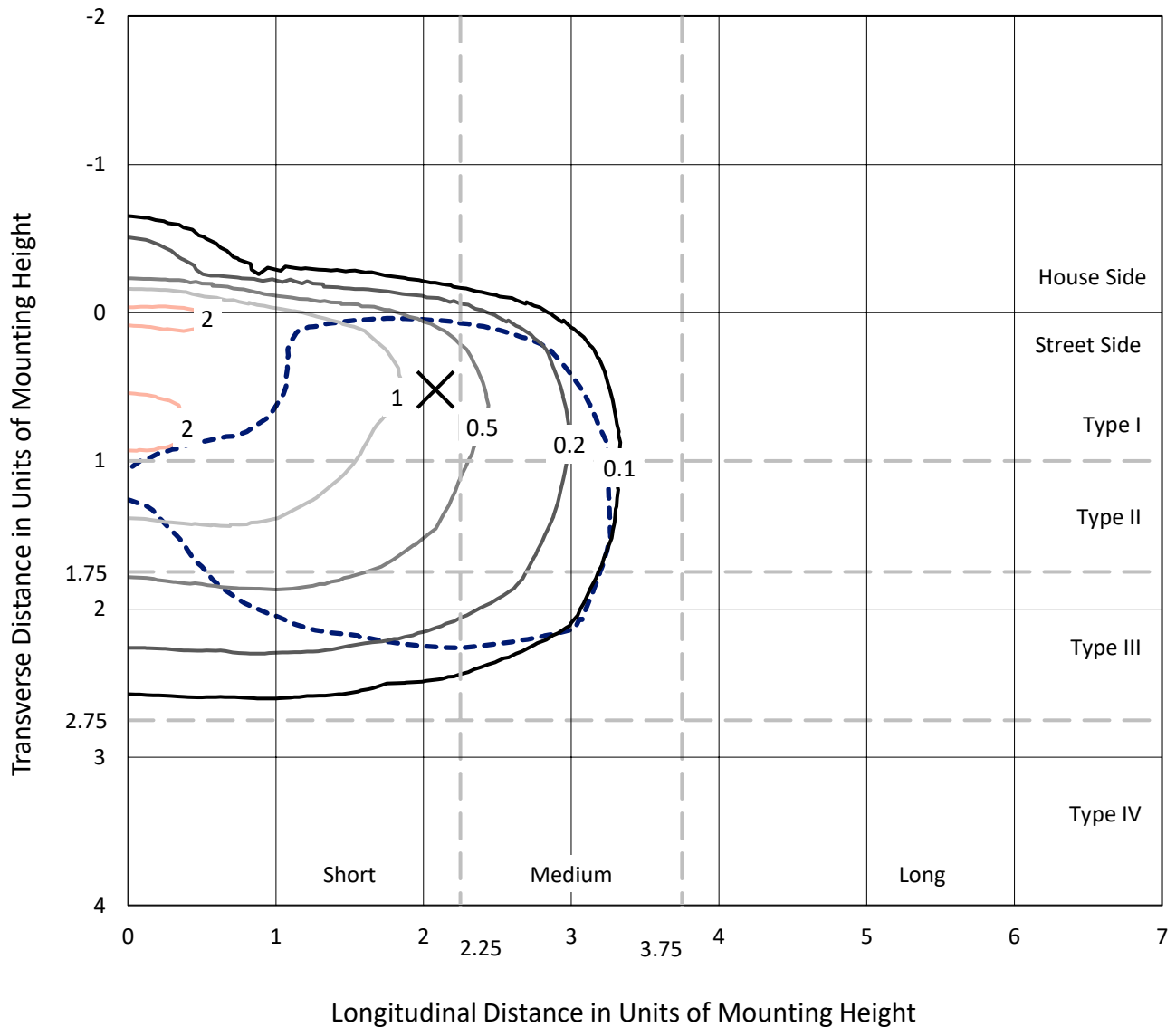
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

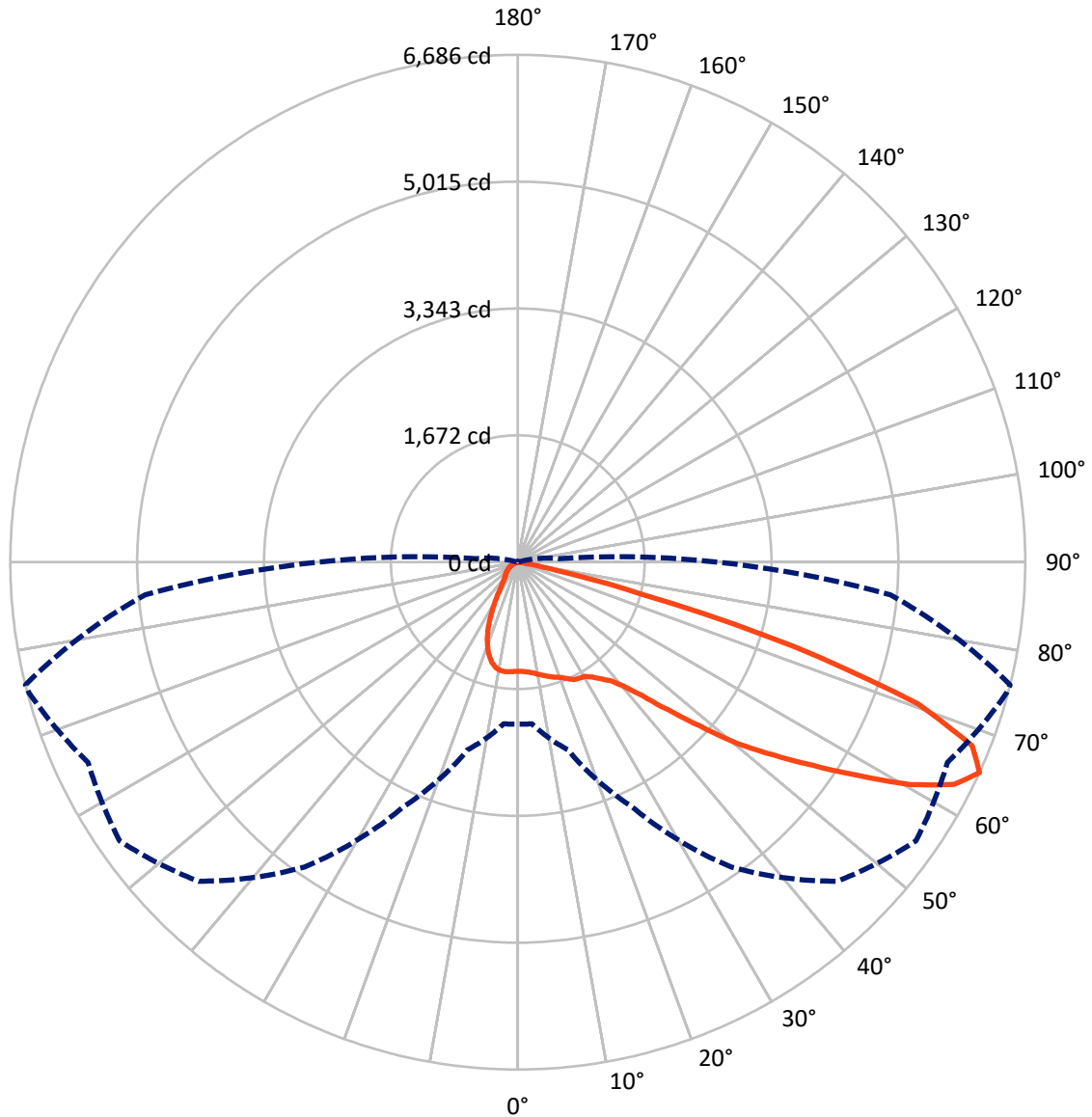
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	567.4	0.0	567.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7289.6	0.0	7289.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	7857.0	0.0	7857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.5
10°-20°	263.6	3.4
20°-30°	424.8	5.4
30°-40°	738.6	9.4
40°-50°	1220.6	15.5
50°-60°	1885.5	24.0
60°-70°	2302.5	29.3
70°-80°	873.8	11.1
80°-90°	29.2	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°	7857.0	100.0
0°-180°	7857.0	100.0

Coefficient of Utilization



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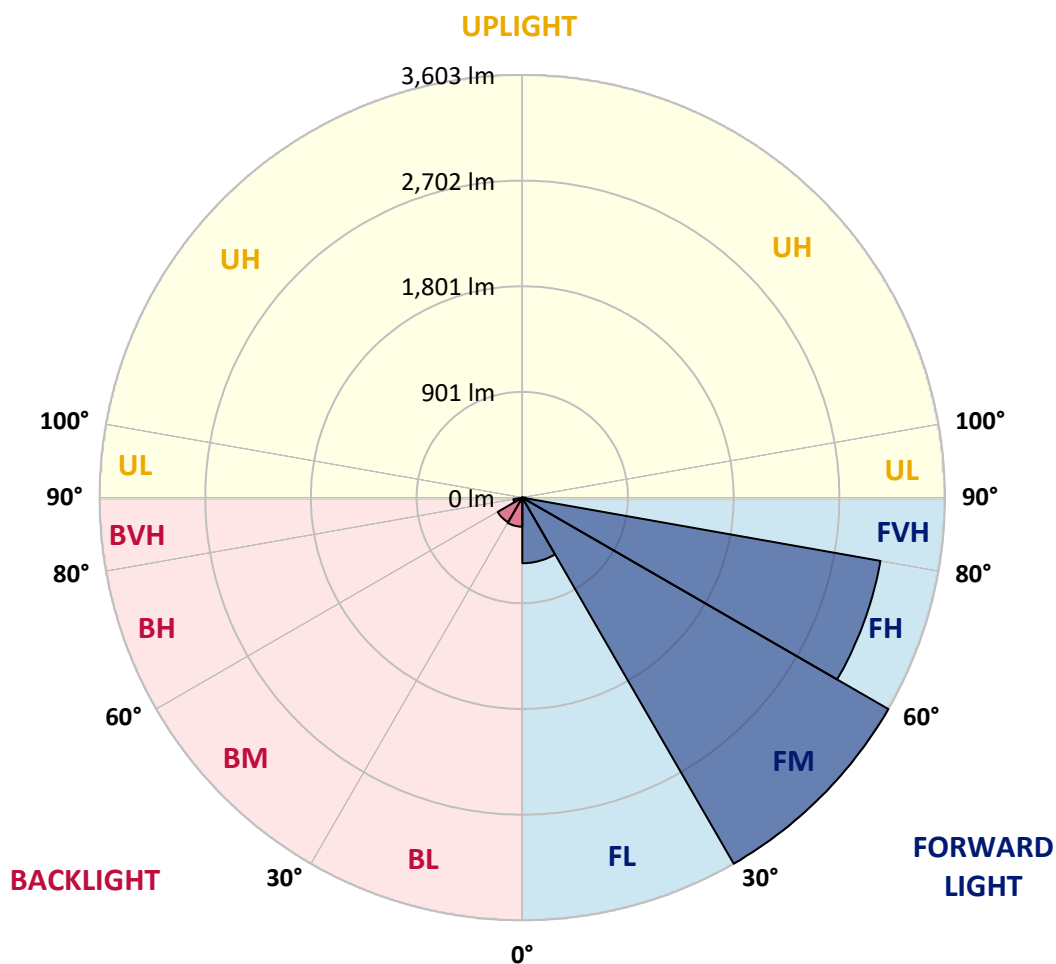
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.9	7.1			
FM (30°-60°)	3602.6	45.9			
FH (60°-80°)	3099.3	39.4			G2/5000
FVH (80°-90°)	28.8	0.4			G1/100
BL (0°-30°)	247.9	3.2	B1/500		
BM (30°-60°)	242.1	3.1	B1/1000		
BH (60°-80°)	77.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3
2.5°	1373.5	1374.1	1377.4	1385.7	1398.5	1409.0	1417.9	1432.3	1442.3	1443.4	1446.7
5°	1278.6	1272.0	1278.6	1300.3	1319.7	1349.1	1385.2	1421.2	1453.4	1455.6	1471.1
7.5°	1172.1	1177.7	1188.2	1210.4	1247.0	1292.0	1344.1	1408.5	1469.5	1475.0	1505.5
10°	1064.0	1076.2	1093.4	1127.2	1178.2	1236.5	1307.5	1399.6	1495.0	1502.8	1555.5
12.5°	964.1	969.7	990.7	1036.2	1099.5	1181.6	1279.8	1394.6	1523.3	1532.7	1608.7
15°	887.6	894.8	913.1	954.1	1024.6	1130.0	1257.0	1392.9	1551.0	1564.3	1662.0
17.5°	873.1	877.6	885.3	913.1	974.7	1088.9	1236.5	1392.4	1577.6	1593.7	1711.3
20°	932.5	928.6	920.8	918.1	951.9	1057.3	1221.5	1396.8	1603.2	1621.5	1763.5
22.5°	1081.2	1086.2	1040.7	986.9	975.8	1052.3	1219.3	1417.9	1643.7	1665.3	1821.7
25°	1396.8	1358.5	1287.5	1158.8	1061.7	1082.8	1244.3	1467.8	1690.8	1714.7	1874.4
27.5°	1745.7	1734.1	1623.7	1411.8	1230.9	1147.2	1288.6	1506.1	1706.3	1730.7	1904.4
30°	2088.5	2102.4	1975.9	1741.8	1476.7	1266.4	1330.2	1520.5	1720.2	1745.7	1942.7
32.5°	2406.4	2423.0	2312.1	2080.2	1766.2	1472.8	1401.8	1576.5	1778.5	1804.5	2006.4
35°	2656.6	2658.8	2575.0	2390.3	2082.4	1723.5	1556.6	1674.7	1857.2	1887.7	2074.1
37.5°	2886.2	2882.9	2784.7	2625.5	2345.9	1972.6	1751.3	1787.9	1947.1	1978.7	2171.8
40°	3056.5	3058.8	3027.1	2877.4	2591.7	2202.8	1905.5	1893.8	2098.0	2147.3	2313.8
42.5°	3170.3	3190.8	3206.3	3130.3	2900.7	2486.3	2142.4	2120.7	2359.8	2400.9	2514.6
45°	3262.3	3299.0	3376.6	3372.7	3197.4	2834.1	2467.4	2423.0	2730.9	2774.7	2770.3
47.5°	3329.5	3366.6	3495.3	3573.0	3476.5	3171.4	2876.3	2838.0	3174.1	3221.9	3052.7
50°	3363.9	3408.2	3572.4	3722.8	3694.5	3496.4	3342.2	3344.4	3709.5	3755.5	3379.9
52.5°	3283.4	3341.1	3613.5	3884.2	3939.1	3807.6	3778.8	3852.0	4186.0	4225.4	3675.6
55°	3026.6	3099.3	3557.5	4021.8	4222.6	4174.9	4274.7	4386.2	4706.9	4732.4	3979.1
57.5°	2864.1	2941.2	3392.2	4138.8	4563.2	4636.4	4794.5	4876.0	5244.4	5309.3	4327.4
60°	2727.0	2787.5	3256.2	4163.8	4909.3	5201.1	5354.8	5439.1	5907.8	5950.0	4710.7
62.5°	2499.0	2568.4	3026.6	3989.6	5083.5	5653.2	5971.6	5933.9	6421.0	6450.4	4945.9
65°	2132.4	2138.5	2560.6	3551.9	4903.8	5946.7	6404.9	6246.8	6666.1	6686.1	4927.6
67.5°	1591.5	1650.3	1969.8	2791.9	4142.1	5695.9	6545.2	6255.1	6511.4	6455.9	4536.6
70°	1025.1	1070.1	1335.2	1936.0	2986.6	4753.5	6079.8	5826.3	5714.8	5591.6	3713.3
72.5°	473.2	530.9	793.3	1106.1	1771.2	3386.0	4935.4	4733.5	4113.3	3809.3	2360.4
75°	206.4	220.8	391.6	583.6	830.4	1790.7	3254.0	2938.4	1857.8	1696.9	944.7
77.5°	125.9	135.4	205.2	312.9	326.2	682.3	1752.9	1282.0	574.1	506.5	256.3
80°	85.4	96.0	149.2	163.6	111.5	190.3	657.9	342.3	115.9	110.9	54.9
82.5°	41.6	52.7	110.4	91.5	48.3	61.0	191.4	73.2	33.8	31.6	19.4
85°	6.1	10.5	62.1	59.9	21.6	14.4	33.8	18.3	11.6	11.1	8.9
87.5°	0.0	0.0	21.1	9.4	2.2	2.2	3.9	3.9	4.4	3.9	4.4
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°	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3	1437.3
2.5°	1448.4	1451.2	1440.6	1425.6	1409.6	1393.5	1370.7	1350.2	1338.0	1345.2	1327.5
5°	1474.5	1472.2	1444.5	1399.0	1338.6	1265.9	1193.8	1132.2	1112.2	1082.3	1078.9
7.5°	1510.5	1504.4	1445.6	1341.3	1204.9	1068.4	935.3	847.1	796.6	753.9	755.0
10°	1561.0	1543.2	1432.9	1239.8	1015.1	809.3	639.6	523.1	472.6	456.5	443.8
12.5°	1613.1	1578.8	1397.4	1102.8	790.5	553.1	388.9	317.9	286.8	276.8	275.7
15°	1659.7	1605.4	1335.2	938.0	574.7	353.4	265.2	241.9	238.0	238.5	238.0
17.5°	1705.8	1626.5	1249.2	763.3	390.5	253.5	228.0	222.4	224.1	226.3	225.8
20°	1744.1	1630.9	1139.4	582.5	276.3	222.4	214.1	213.0	214.7	216.3	216.3
22.5°	1785.7	1634.2	1009.0	403.3	225.8	206.9	202.5	202.5	204.7	206.9	207.5
25°	1816.7	1615.9	853.2	289.6	199.1	191.9	189.7	190.3	192.5	193.6	193.0
27.5°	1821.7	1564.3	687.9	221.9	180.8	173.6	171.4	173.6	170.9	172.5	171.4
30°	1826.2	1498.9	520.3	186.9	164.2	153.1	149.8	146.4	144.2	141.5	140.9
32.5°	1840.0	1421.8	380.0	168.1	148.7	136.5	128.7	119.3	112.1	109.8	109.3
35°	1846.1	1329.1	279.0	153.1	134.8	121.5	107.6	94.3	83.8	79.9	82.7
37.5°	1869.4	1239.3	216.3	142.0	122.6	106.0	88.2	71.6	61.6	59.4	60.5
40°	1917.1	1141.6	181.4	132.6	112.1	91.5	69.9	53.8	47.2	44.9	44.4
42.5°	1993.7	1044.5	161.4	123.7	101.5	77.1	54.9	42.2	36.6	34.9	34.9
45°	2086.9	951.4	147.6	114.3	90.4	62.1	43.3	33.8	30.5	29.4	29.4
47.5°	2209.5	869.8	135.9	104.8	78.2	49.4	34.9	29.4	27.2	27.7	28.3
50°	2333.7	809.3	123.1	94.3	64.3	40.5	30.0	26.1	25.5	26.1	26.1
52.5°	2427.5	773.8	106.0	79.9	50.5	33.8	26.6	24.4	23.9	22.7	22.7
55°	2554.0	766.1	84.3	64.9	39.9	28.3	23.9	22.2	20.5	19.4	18.9
57.5°	2716.5	775.0	64.9	50.5	31.1	23.3	21.1	18.3	16.1	13.9	13.9
60°	2817.5	755.0	50.5	38.8	22.7	18.9	16.1	13.3	10.5	8.9	8.3
62.5°	2785.3	670.7	39.9	28.8	16.1	13.9	10.5	8.9	6.1	4.4	3.9
65°	2619.4	541.4	32.2	20.0	11.6	8.3	5.5	5.5	2.8	0.6	0.0
67.5°	2292.7	401.1	25.5	13.3	6.7	3.9	2.8	1.7	0.0	0.0	0.0
70°	1866.1	289.6	20.0	8.3	3.9	2.8	1.1	0.6	0.0	0.0	0.0
72.5°	1184.9	165.9	15.5	5.0	2.8	1.1	0.0	0.0	0.0	0.0	0.0
75°	458.2	64.9	10.5	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	129.8	30.5	6.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.8	13.3	3.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	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)