

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: P322367

Luminaire Tested: **GLEON-SA3C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11568 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

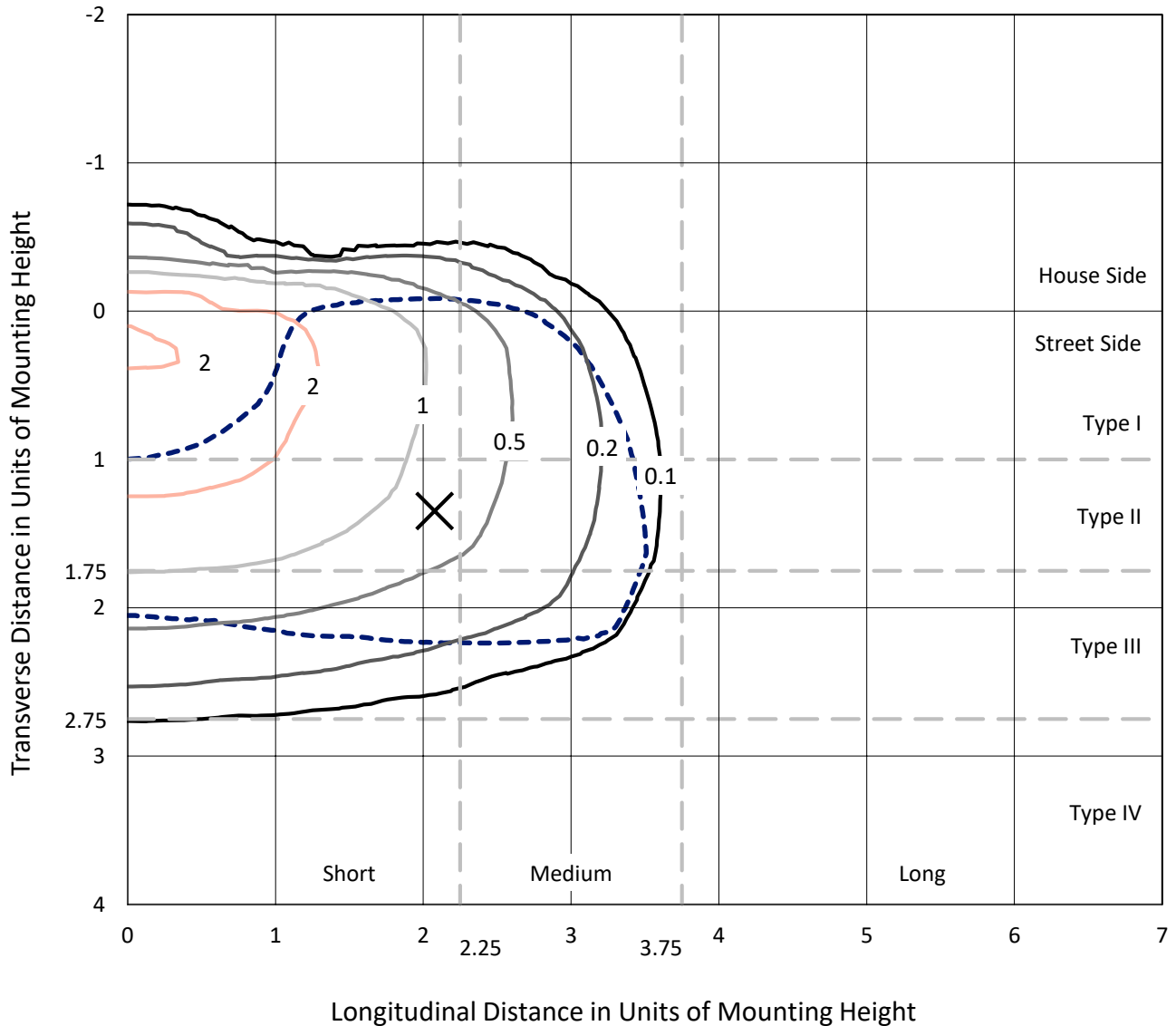
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

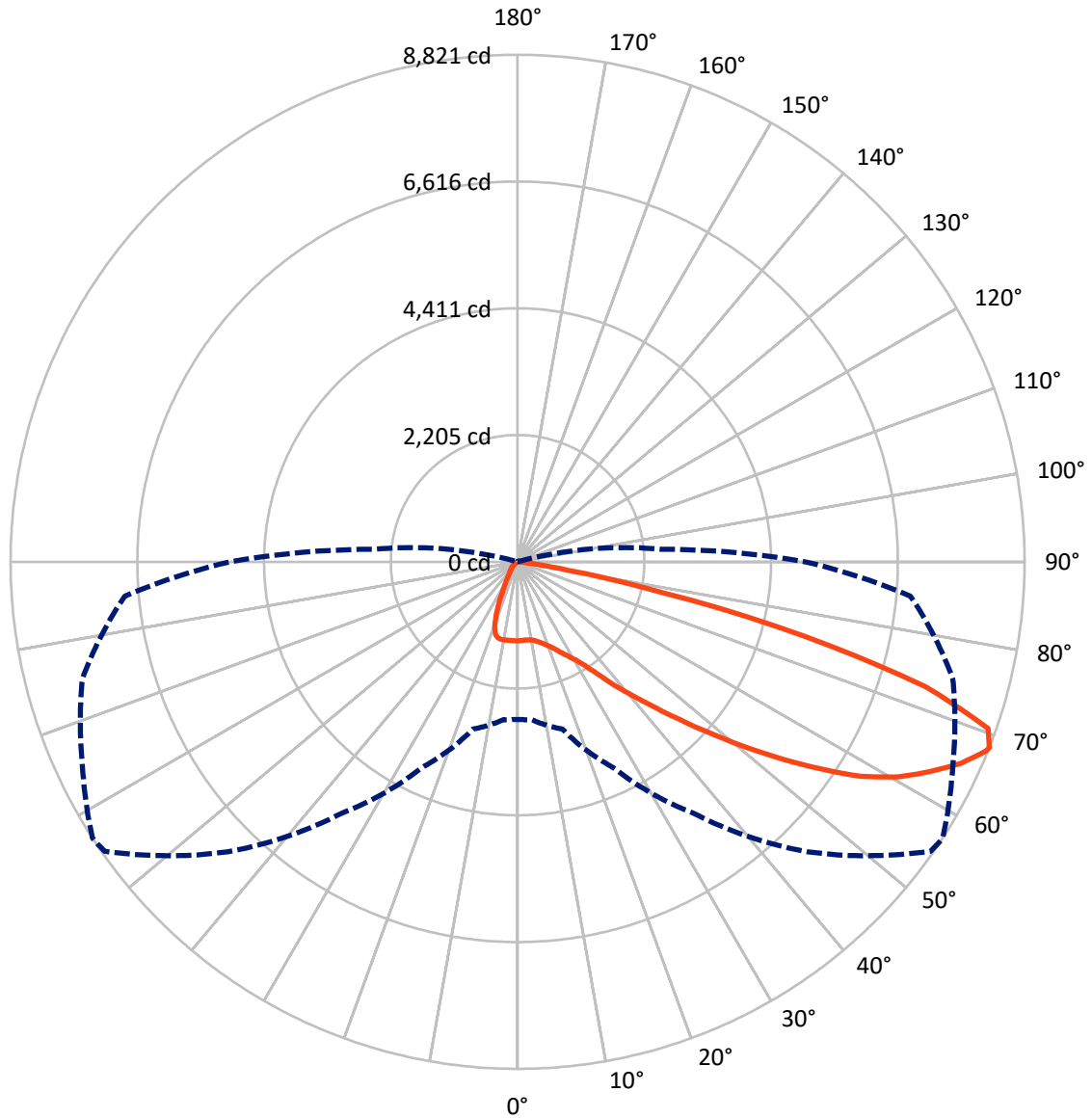
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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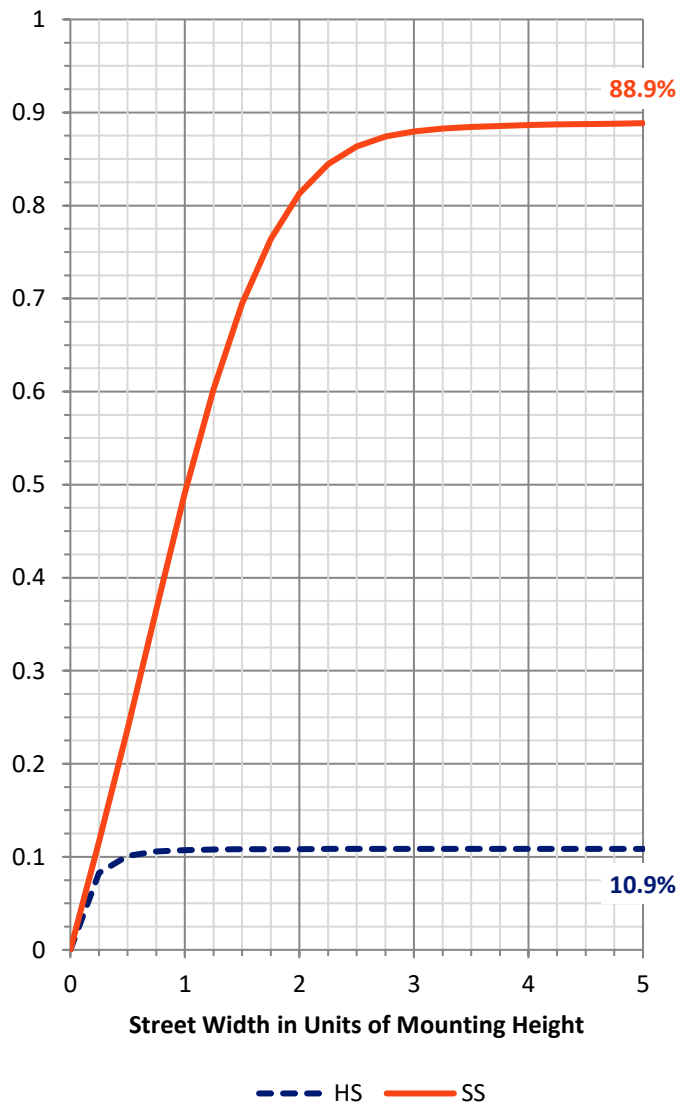
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.5	0.0	1268.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	10299.5	0.0	10299.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	11568.0	0.0	11568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	1.1
10°-20°	356.5	3.1
20°-30°	614.9	5.3
30°-40°	1061.4	9.2
40°-50°	1815.5	15.7
50°-60°	2904.6	25.1
60°-70°	3356.0	29.0
70°-80°	1282.4	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°	11568.0	100.0
0°-180°	11568.0	100.0

Coefficient of Utilization



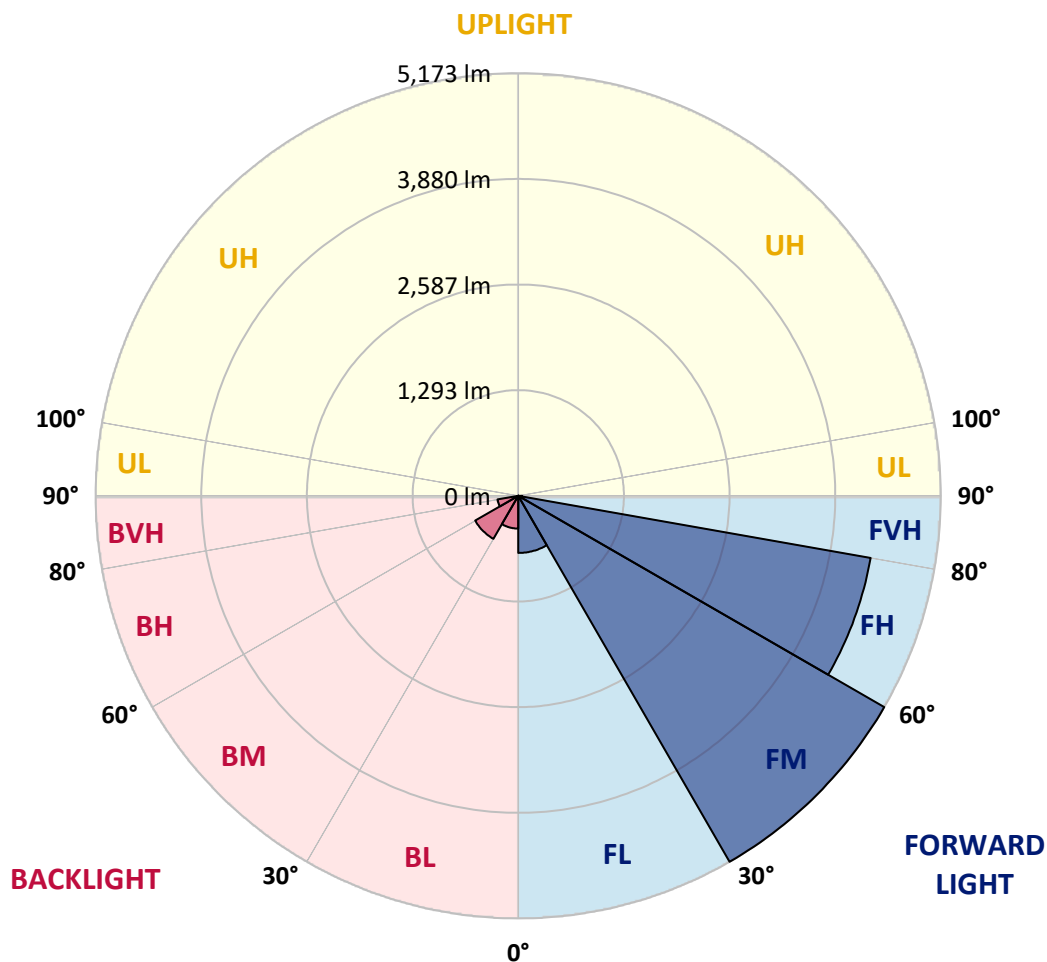
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.2	6.0			
FM (30°-60°)	5173.1	44.7			
FH (60°-80°)	4380.0	37.9			G2/5000
FVH (80°-90°)	47.2	0.4			G1/100
BL (0°-30°)	400.9	3.5	B1/500		
BM (30°-60°)	608.4	5.3	B1/1000		
BH (60°-80°)	258.3	2.2	B1/500		G1/500
BVH (80°-90°)	0.9	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°	57°	65°	75°	85°
0°	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	1342.3	1348.3	1352.7	1355.4	1358.7	1365.8	1368.0	1371.3	1372.9	1372.9	1376.8
5°	1289.3	1295.8	1305.1	1312.8	1328.1	1347.8	1362.0	1367.5	1377.3	1386.1	1391.0
7.5°	1240.0	1247.7	1258.6	1276.7	1302.9	1334.7	1364.2	1371.8	1391.0	1409.6	1418.9
10°	1208.3	1214.3	1228.5	1254.2	1288.7	1333.0	1374.6	1383.9	1416.7	1447.9	1465.4
12.5°	1197.4	1202.8	1217.6	1246.6	1289.3	1341.2	1398.7	1412.3	1460.5	1505.9	1530.5
15°	1213.2	1214.3	1230.2	1257.5	1299.6	1361.5	1438.6	1455.0	1515.7	1574.8	1605.4
17.5°	1274.5	1269.6	1277.8	1289.8	1323.2	1388.3	1480.7	1505.3	1586.3	1655.7	1684.7
20°	1427.6	1427.6	1409.0	1376.2	1376.8	1429.8	1537.6	1565.5	1664.5	1744.9	1771.2
22.5°	1689.6	1684.7	1647.5	1567.1	1493.3	1501.5	1607.1	1643.2	1758.6	1844.4	1853.2
25°	2004.7	1998.7	1941.3	1828.0	1700.0	1617.4	1701.1	1742.7	1870.7	1946.7	1928.7
27.5°	2338.4	2333.5	2276.6	2136.0	1953.8	1802.3	1813.3	1852.7	1985.0	2060.0	2002.5
30°	2661.6	2663.3	2606.9	2462.5	2256.3	2038.1	1955.5	1978.5	2096.1	2172.1	2090.0
32.5°	2969.1	2971.2	2922.6	2761.2	2568.7	2312.1	2152.4	2146.4	2225.2	2300.1	2206.0
35°	3243.1	3248.6	3215.2	3089.9	2885.9	2617.3	2407.8	2393.6	2408.4	2493.2	2383.8
37.5°	3507.3	3510.6	3485.4	3379.8	3209.2	2952.6	2730.6	2710.3	2678.6	2743.7	2618.4
40°	3796.7	3788.4	3759.5	3663.7	3517.1	3323.0	3077.4	3042.4	2987.1	3045.1	2926.9
42.5°	4065.8	4056.5	4061.4	3953.1	3829.5	3703.7	3481.6	3421.4	3389.1	3455.9	3305.5
45°	4402.2	4397.2	4413.7	4319.6	4219.5	4128.1	3944.9	3879.2	3865.0	3943.2	3763.3
47.5°	4734.2	4746.2	4797.1	4757.2	4716.7	4636.3	4435.5	4406.0	4414.7	4509.4	4246.3
50°	5011.0	5025.2	5164.7	5210.6	5269.1	5222.1	5020.8	5002.8	5037.2	5122.6	4765.9
52.5°	5211.2	5240.2	5413.6	5625.2	5838.6	5870.3	5669.5	5653.1	5699.6	5712.8	5167.4
55°	5350.1	5375.8	5572.2	5959.4	6393.8	6530.5	6405.8	6342.3	6333.6	6203.9	5589.7
57.5°	5374.7	5372.0	5654.2	6175.5	6829.2	7182.0	7103.2	7040.8	6861.4	6658.0	6073.8
60°	5235.8	5251.6	5579.3	6250.4	7102.7	7674.8	7680.8	7599.9	7320.4	7099.4	6543.1
62.5°	4808.0	4872.6	5203.5	6054.1	7099.4	7873.4	8104.2	8042.4	7708.2	7460.9	7019.0
65°	4114.5	4137.4	4453.0	5381.3	6619.7	7790.2	8485.4	8462.5	8057.7	7812.1	7263.5
67.5°	3004.6	2954.8	3286.3	4237.5	5604.4	7305.6	8758.9	8787.9	8327.4	7884.3	7003.1
68°	2742.1	2756.8	3015.0	3954.7	5338.6	7134.4	8777.0	8821.3	8354.2	7837.3	6860.9
70°	1634.4	1662.8	1893.1	2722.9	4061.4	6165.7	8582.3	8683.5	8194.4	7352.1	5934.3
72.5°	417.4	451.3	669.0	1218.7	2319.8	4344.2	7244.9	7416.1	7114.7	5964.4	4006.1
75°	171.8	180.5	239.0	401.5	864.2	1957.1	4775.2	5141.7	4932.2	3570.7	1810.5
77.5°	118.7	124.7	153.7	222.6	374.1	663.5	2341.1	2605.9	2347.7	1218.7	394.9
80°	85.3	90.3	109.9	148.2	215.0	236.8	763.0	882.3	700.7	267.5	97.9
82.5°	50.9	54.7	82.0	105.6	130.7	113.2	189.8	215.5	202.9	132.9	43.8
85°	25.2	29.5	55.2	75.5	70.6	47.6	58.0	64.5	79.9	81.0	23.5
87.5°	1.6	3.3	32.3	45.4	19.7	10.9	17.0	20.8	28.4	39.9	9.8
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°	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	1378.4	1379.0	1375.1	1373.5	1374.6	1368.0	1365.3	1366.4	1366.4	1368.0	1365.3
5°	1392.1	1392.1	1385.5	1376.8	1371.8	1359.3	1351.1	1348.9	1347.2	1346.1	1344.0
7.5°	1421.6	1418.3	1406.9	1387.7	1371.3	1344.0	1323.2	1312.2	1306.8	1304.6	1302.9
10°	1469.2	1463.2	1444.1	1408.5	1370.8	1322.1	1276.7	1244.4	1217.6	1206.7	1200.1
12.5°	1533.2	1524.5	1492.2	1433.1	1366.9	1277.2	1178.8	1084.1	996.1	960.0	941.9
15°	1607.1	1594.5	1543.6	1453.9	1344.5	1176.0	962.2	796.4	674.4	628.5	608.8
17.5°	1682.0	1665.6	1588.5	1467.0	1277.2	966.5	675.0	509.8	428.3	406.4	398.8
20°	1757.5	1733.4	1627.3	1457.2	1125.2	696.9	445.2	372.5	349.0	342.4	340.2
22.5°	1829.1	1791.9	1662.3	1418.9	891.0	467.7	352.3	329.3	321.6	317.8	316.7
25°	1891.5	1839.5	1692.9	1300.7	630.7	353.4	317.3	309.6	299.7	292.6	293.2
27.5°	1950.0	1887.1	1711.5	1106.0	420.6	301.9	293.7	283.3	265.3	254.9	254.9
30°	2020.6	1950.6	1725.2	851.1	309.6	266.9	260.4	244.5	219.9	206.2	206.2
32.5°	2126.7	2046.8	1716.5	597.3	256.5	234.7	219.3	197.5	170.7	157.5	157.0
35°	2289.1	2195.6	1654.1	391.6	226.5	204.0	179.4	152.6	129.1	118.1	117.6
37.5°	2507.9	2394.7	1514.1	280.1	202.9	175.6	146.0	116.5	99.0	91.9	91.3
40°	2791.8	2626.1	1313.9	227.0	181.1	148.2	112.7	90.3	78.2	72.7	73.3
42.5°	3132.6	2873.9	1073.7	195.8	159.7	122.0	88.1	71.1	63.5	59.6	58.5
45°	3511.1	3118.4	822.1	174.5	138.4	98.5	68.9	56.3	50.3	48.1	48.1
47.5°	3927.4	3356.3	601.7	155.9	115.4	76.0	55.2	45.9	41.0	39.4	38.8
50°	4305.4	3521.5	433.8	136.2	94.6	60.2	44.9	38.3	35.0	32.8	32.8
52.5°	4620.4	3573.5	319.4	114.9	76.6	48.1	37.2	32.8	29.5	27.9	27.9
55°	4897.7	3552.1	237.4	94.6	61.8	39.4	31.7	27.9	25.2	23.5	23.5
57.5°	5163.6	3483.2	177.2	77.1	49.8	31.7	26.8	23.5	20.8	19.7	19.7
60°	5380.7	3368.4	131.8	62.4	39.9	25.7	22.4	19.1	17.0	15.3	15.3
62.5°	5556.9	3241.5	96.8	51.4	31.7	20.2	17.5	15.9	12.6	10.9	10.9
65°	5558.0	3030.9	72.7	42.7	24.6	15.9	13.1	12.6	8.2	6.6	6.0
67.5°	5155.9	2613.0	55.8	36.6	19.1	12.0	9.8	10.4	4.4	2.7	2.2
68°	5009.9	2506.9	52.5	36.1	18.1	11.5	9.3	10.4	3.8	2.2	1.6
70°	4223.8	1994.3	42.1	35.0	15.9	8.8	7.7	10.4	3.3	1.6	1.1
72.5°	2701.6	1157.4	31.2	27.9	12.0	6.6	4.9	9.3	3.3	1.1	0.5
75°	1149.8	358.8	21.3	19.7	7.1	4.9	3.3	6.0	2.2	0.5	0.0
77.5°	242.3	81.0	12.6	12.0	4.9	3.3	2.2	1.6	0.5	0.0	0.0
80°	62.4	23.5	6.6	6.0	2.7	1.6	1.1	0.0	0.0	0.0	0.0
82.5°	19.7	9.3	3.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.6	0.5	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)