

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: P594502

Luminaire Tested: **ISS-PA1A-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-827-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3082 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

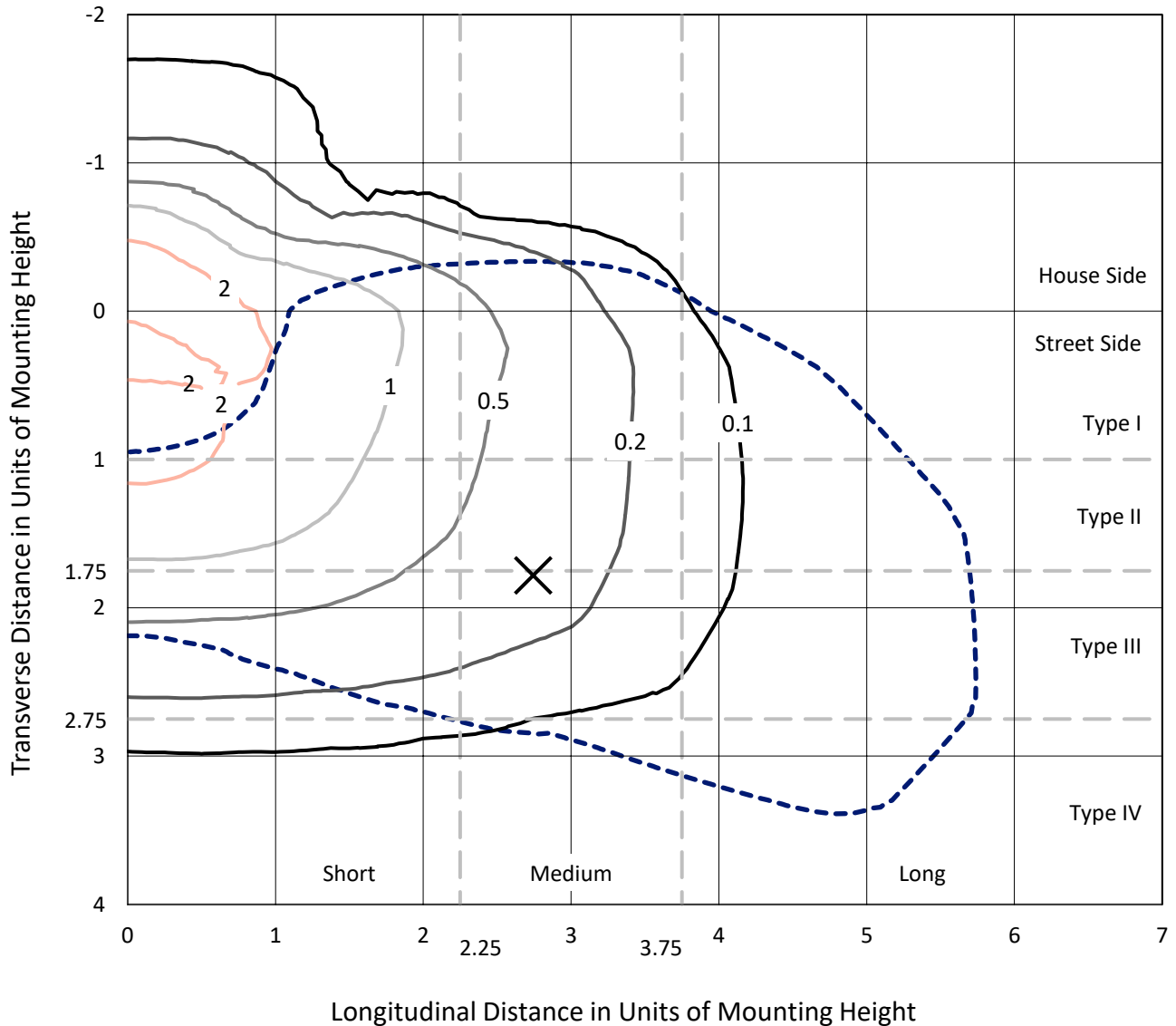
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

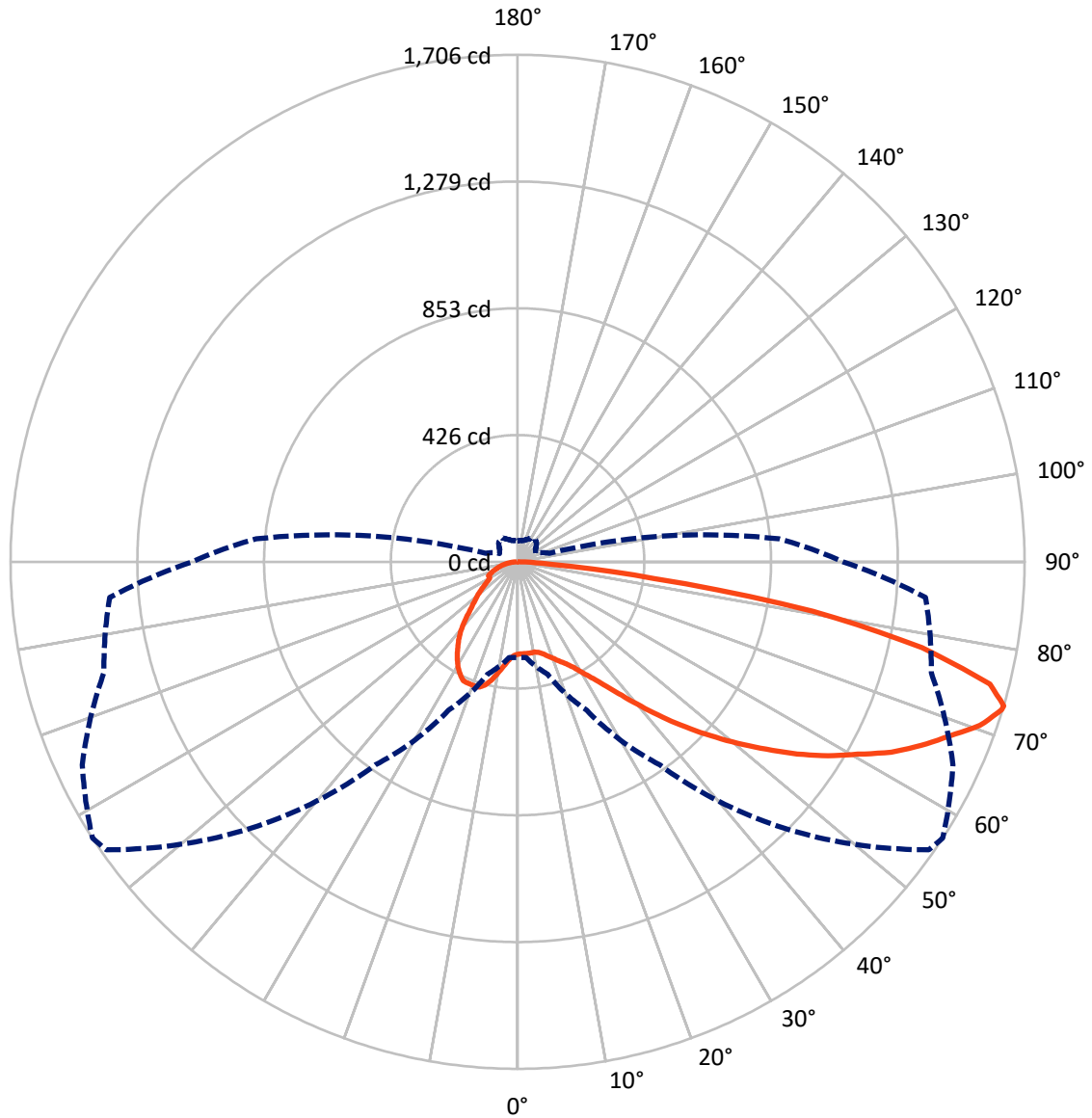
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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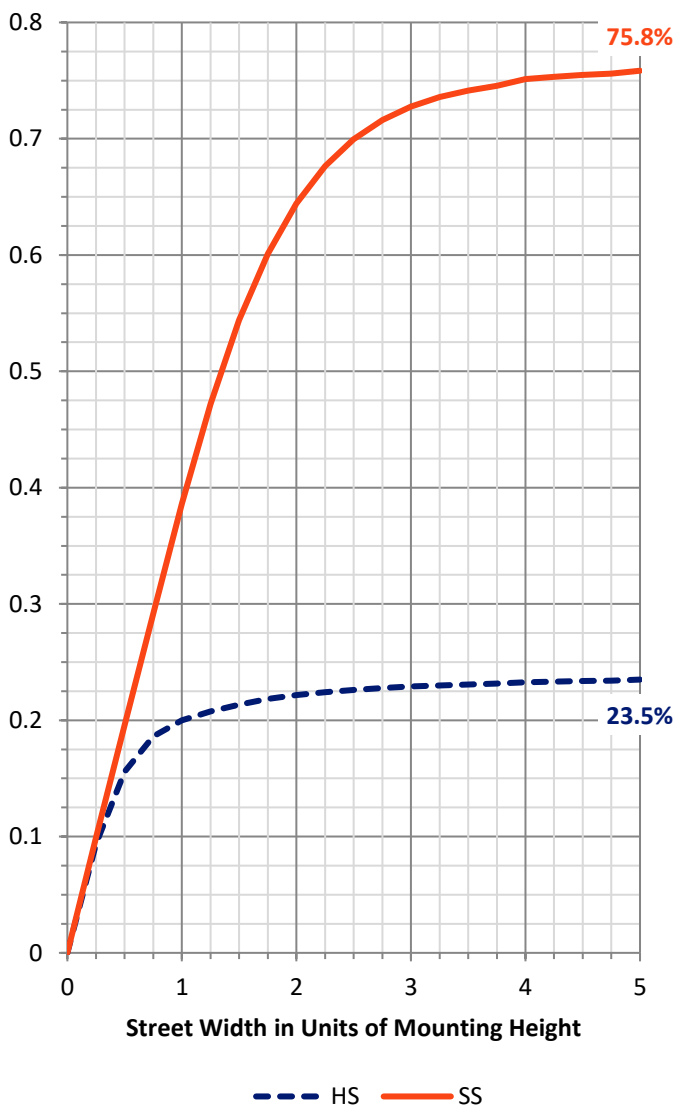
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.3	0.0	735.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2346.7	0.0	2346.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	3082.0	0.0	3082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	1.0
10°-20°	102.0	3.3
20°-30°	188.2	6.1
30°-40°	290.6	9.4
40°-50°	437.5	14.2
50°-60°	640.3	20.8
60°-70°	756.1	24.5
70°-80°	541.4	17.6
80°-90°	94.9	3.1
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°	3082.0	100.0
0°-180°	3082.0	100.0

Coefficient of Utilization

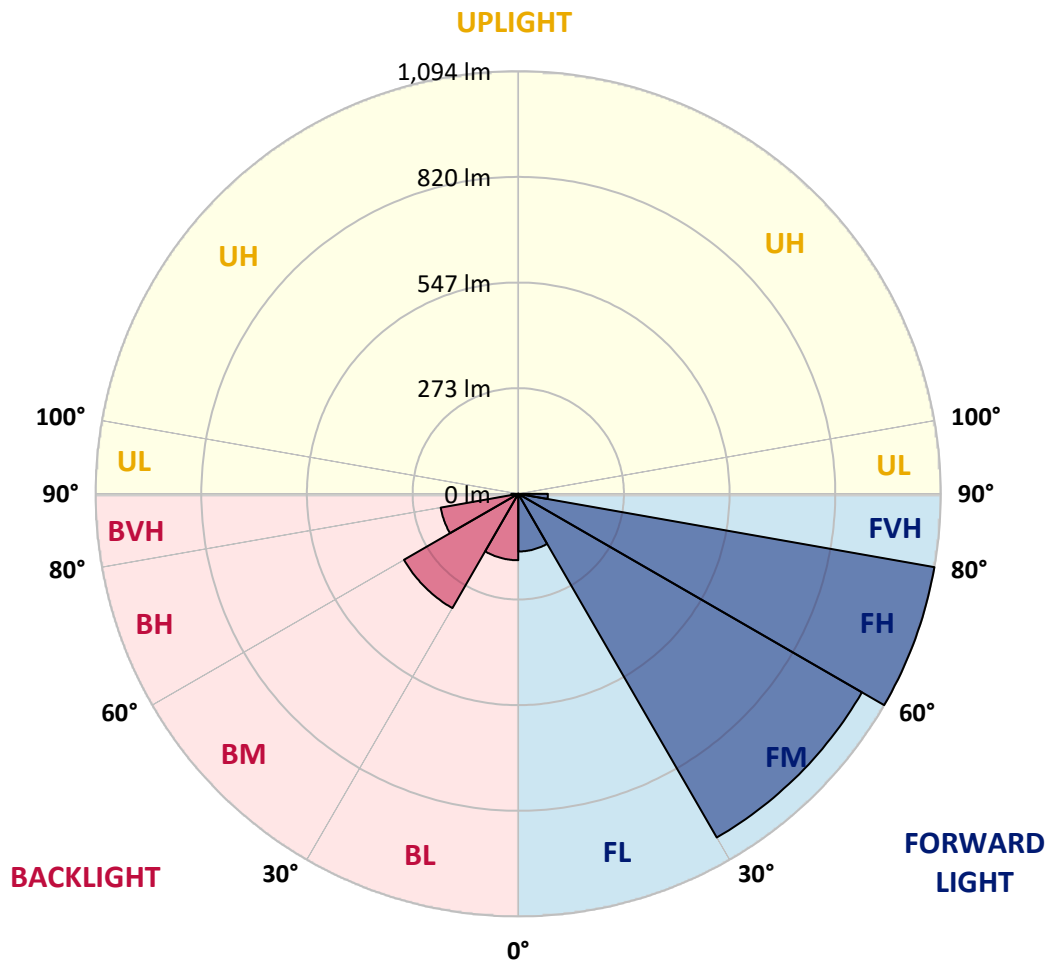


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.3	4.8			
FM (30°-60°)	1027.0	33.3			
FH (60°-80°)	1093.7	35.5			G1/1800
FVH (80°-90°)	76.7	2.5			G1/100
BL (0°-30°)	171.8	5.6	B1/500		
BM (30°-60°)	341.4	11.1	B1/1000		
BH (60°-80°)	203.9	6.6	B1/500		G1/500
BVH (80°-90°)	18.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5
2.5°	306.7	308.2	307.5	308.2	310.5	309.0	309.0	309.8	310.5	309.8	311.3
5°	293.9	294.6	296.2	299.2	304.5	306.0	309.8	309.8	311.3	312.8	315.0
7.5°	272.7	274.2	277.3	280.3	289.4	298.4	308.2	309.8	315.0	318.8	320.3
10°	269.0	270.5	271.2	275.8	284.8	293.9	306.0	309.0	318.8	324.9	331.7
12.5°	265.2	266.7	269.0	275.0	286.3	296.2	309.0	312.0	324.1	336.2	344.5
15°	268.2	269.0	271.2	277.3	288.6	302.2	318.8	321.1	334.7	349.8	362.6
17.5°	275.8	276.5	275.8	281.0	291.6	307.5	330.2	333.9	350.6	365.7	378.5
20°	293.1	293.9	290.9	290.9	298.4	314.3	342.2	347.5	367.9	384.6	397.4
22.5°	330.9	329.4	321.8	312.0	312.0	324.9	355.8	363.4	389.1	402.7	414.0
25°	384.6	384.6	372.5	354.3	342.2	340.7	371.7	380.0	410.2	426.9	433.7
27.5°	449.5	450.3	430.6	406.5	383.0	371.7	394.4	402.7	436.7	454.1	456.3
30°	506.9	507.7	488.1	465.4	436.7	411.8	424.6	433.7	472.9	486.5	479.0
32.5°	564.4	565.1	551.5	520.5	490.3	459.3	463.1	468.4	508.5	521.3	509.2
35°	614.2	616.5	602.9	579.5	547.7	519.8	513.0	513.7	550.0	558.3	542.5
37.5°	664.8	664.8	656.5	634.6	607.4	576.5	567.4	569.7	602.1	610.4	587.8
40°	729.1	732.1	727.6	700.4	669.4	643.7	634.6	637.6	673.2	668.6	644.4
42.5°	806.9	813.7	806.1	776.7	743.4	714.7	714.7	714.7	744.9	745.7	709.4
45°	906.6	906.6	899.1	873.4	829.5	800.8	791.0	793.3	819.7	822.7	780.4
47.5°	989.7	997.3	989.0	970.1	935.3	908.1	877.1	873.4	895.3	895.3	859.0
50°	1057.0	1070.6	1063.8	1072.1	1047.1	1033.5	970.1	959.5	967.0	974.6	934.6
52.5°	1112.9	1123.4	1121.2	1145.3	1157.4	1165.0	1064.5	1047.9	1053.9	1053.2	1016.9
55°	1116.6	1120.4	1154.4	1208.8	1256.4	1291.9	1159.7	1141.6	1135.5	1132.5	1104.5
57.5°	1094.7	1097.0	1165.0	1229.2	1332.7	1373.5	1249.6	1231.5	1223.2	1212.6	1201.3
60°	1041.8	1053.2	1142.3	1241.3	1378.0	1437.0	1333.5	1314.6	1308.5	1285.9	1311.6
62.5°	974.6	979.9	1069.0	1216.4	1384.1	1464.2	1421.9	1410.5	1391.6	1359.2	1409.8
65°	879.4	878.7	957.2	1143.1	1353.1	1477.8	1496.7	1490.6	1467.2	1411.3	1497.4
67.5°	722.3	739.6	816.7	1013.1	1278.3	1491.4	1573.0	1565.4	1528.4	1458.1	1539.0
70°	550.8	561.3	649.0	818.2	1129.5	1454.3	1647.8	1650.0	1582.8	1467.9	1520.8
72.5°	351.3	369.4	438.9	596.1	904.3	1316.8	1692.3	1702.9	1613.0	1454.3	1408.3
73°	321.8	323.4	391.4	551.5	834.1	1267.7	1689.3	1705.9	1616.0	1440.7	1377.3
75°	191.9	200.2	241.0	366.4	595.3	1018.4	1607.7	1641.0	1600.2	1380.3	1207.3
77.5°	89.9	95.9	118.6	193.4	324.1	612.7	1351.6	1390.9	1418.1	1208.1	920.2
80°	47.6	48.4	58.2	97.5	173.8	252.3	942.1	1007.1	1045.6	909.6	618.8
82.5°	40.0	40.0	45.3	62.7	111.1	98.2	388.3	462.4	566.6	448.0	243.3
85°	32.5	33.2	45.3	46.8	79.3	50.6	92.9	116.3	219.9	197.9	27.2
87.5°	10.6	12.1	25.7	33.2	42.3	19.6	23.4	25.7	25.7	37.8	9.1
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°	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5	310.5
2.5°	312.0	312.0	312.8	313.5	315.0	315.0	316.6	317.3	318.8	319.6	317.3
5°	315.0	316.6	318.1	322.6	327.9	332.4	337.0	340.7	344.5	346.8	346.0
7.5°	323.4	325.6	331.7	340.0	350.6	357.4	364.2	371.0	374.0	375.5	375.5
10°	334.7	339.2	350.6	364.2	376.2	386.8	392.1	396.6	398.2	399.7	398.2
12.5°	350.6	356.6	374.0	391.4	405.0	410.2	409.5	403.4	395.1	393.6	392.1
15°	371.0	378.5	398.2	418.6	429.1	422.3	405.0	398.9	397.4	401.9	400.4
17.5°	388.3	397.4	421.6	442.7	440.5	417.0	411.8	414.8	413.3	414.0	414.0
20°	405.0	417.8	443.5	457.8	438.2	423.1	418.6	414.8	410.2	411.8	410.2
22.5°	426.1	435.2	464.6	465.4	435.2	423.1	413.3	405.7	404.2	405.0	405.7
25°	442.7	457.1	482.8	460.1	435.2	411.0	397.4	395.9	396.6	401.2	399.7
27.5°	465.4	479.7	497.1	457.1	417.0	391.4	386.1	385.3	380.0	381.5	381.5
30°	486.5	503.9	504.7	457.1	394.4	374.7	367.2	353.6	342.2	344.5	343.8
32.5°	515.3	530.4	506.2	438.9	368.7	352.8	332.4	311.3	306.0	309.0	309.8
35°	548.5	560.6	507.7	408.7	343.0	321.8	284.8	272.7	272.0	274.2	276.5
37.5°	592.3	599.1	519.0	374.0	318.1	273.5	244.8	241.8	235.0	230.4	231.2
40°	646.0	637.6	540.9	343.0	288.6	229.7	217.6	209.3	196.4	183.6	185.9
42.5°	705.6	682.2	547.7	318.1	248.6	202.5	191.1	178.3	162.4	148.8	148.1
45°	769.9	732.1	541.7	298.4	208.5	182.1	170.0	154.9	136.0	124.7	124.7
47.5°	846.2	779.7	522.8	282.6	180.6	163.9	148.8	133.7	120.9	110.3	110.3
50°	930.0	834.8	509.2	254.6	160.9	146.6	131.5	119.4	109.5	101.2	101.2
52.5°	1018.4	887.0	497.9	213.8	143.5	130.7	120.1	110.3	102.0	91.4	89.9
55°	1108.3	936.8	503.2	174.5	127.7	119.4	112.6	102.7	99.7	97.5	95.9
57.5°	1202.0	991.2	516.0	142.8	114.1	113.3	110.3	117.1	123.9	119.4	117.1
60°	1275.3	1033.5	517.5	120.1	105.8	119.4	134.5	136.7	118.6	108.0	107.3
62.5°	1333.5	1073.6	482.0	104.3	108.0	140.5	143.5	120.9	102.7	98.2	98.2
65°	1363.7	1087.9	387.6	95.2	112.6	134.5	129.9	108.8	95.9	95.2	95.2
67.5°	1348.6	1076.6	271.2	85.4	99.7	116.3	116.3	99.7	88.4	92.2	90.7
70°	1276.0	1020.7	179.1	77.1	87.6	105.0	108.0	92.9	82.4	84.6	82.4
72.5°	1124.9	921.0	117.9	68.0	75.6	92.9	100.5	85.4	75.6	74.8	72.5
73°	1095.5	883.2	111.1	66.5	73.3	89.9	98.2	83.9	74.0	71.8	70.3
75°	929.3	736.6	83.9	59.7	65.0	80.8	91.4	78.6	68.0	65.0	63.5
77.5°	676.9	510.7	62.7	50.6	54.4	70.3	80.8	71.8	60.4	56.7	55.9
80°	422.3	278.0	46.8	40.8	43.1	58.9	71.0	64.2	52.1	47.6	46.8
82.5°	165.5	90.7	32.5	30.2	31.7	44.6	59.7	55.9	43.8	40.0	37.8
85°	27.2	31.0	21.2	20.4	20.4	31.7	45.3	43.1	29.5	25.7	22.7
87.5°	7.6	14.4	8.3	7.6	7.6	13.6	24.9	19.6	12.1	9.8	9.1
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)