

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: P595173

Luminaire Tested: **IST-PA1C-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-830-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5354 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

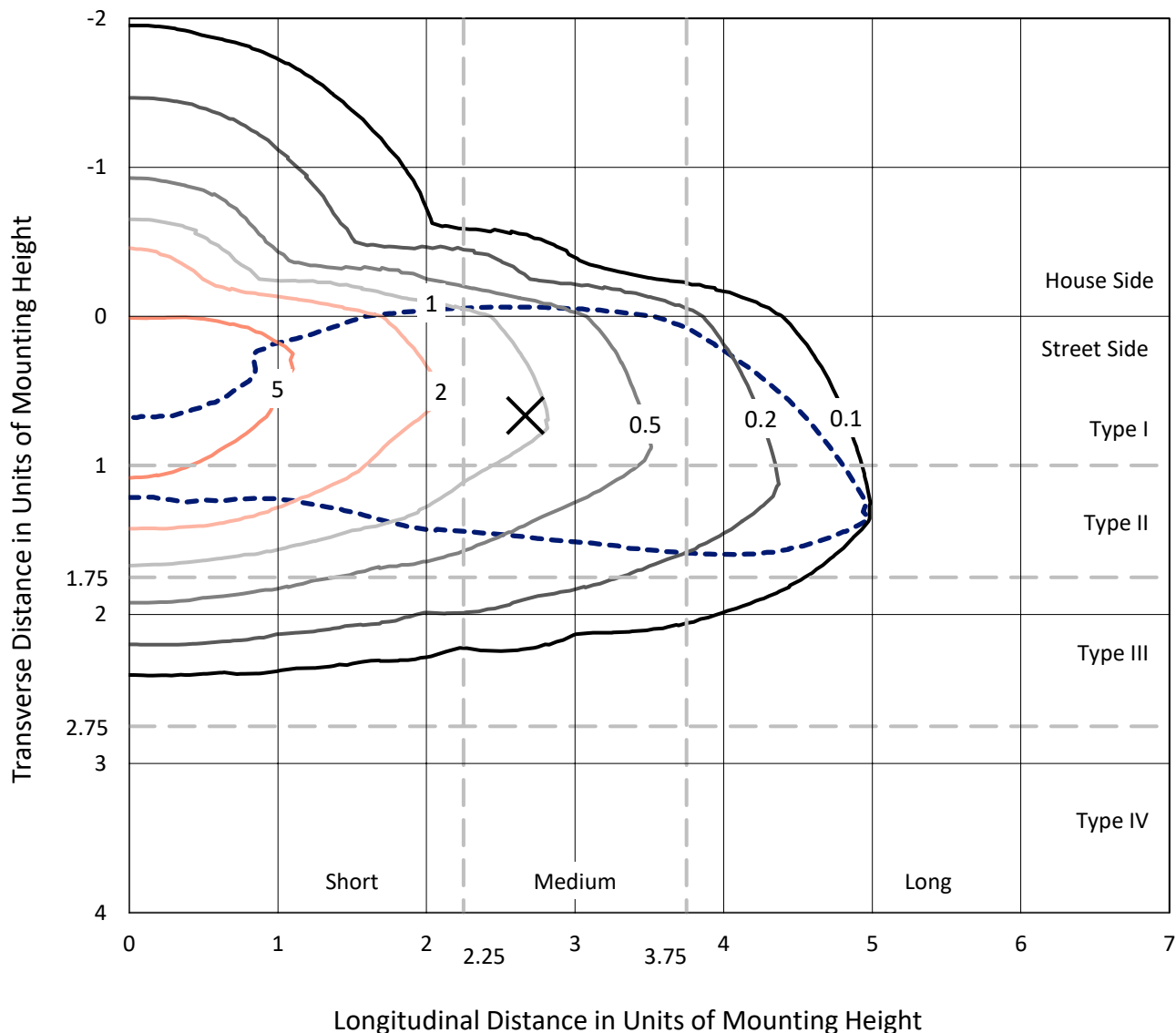
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

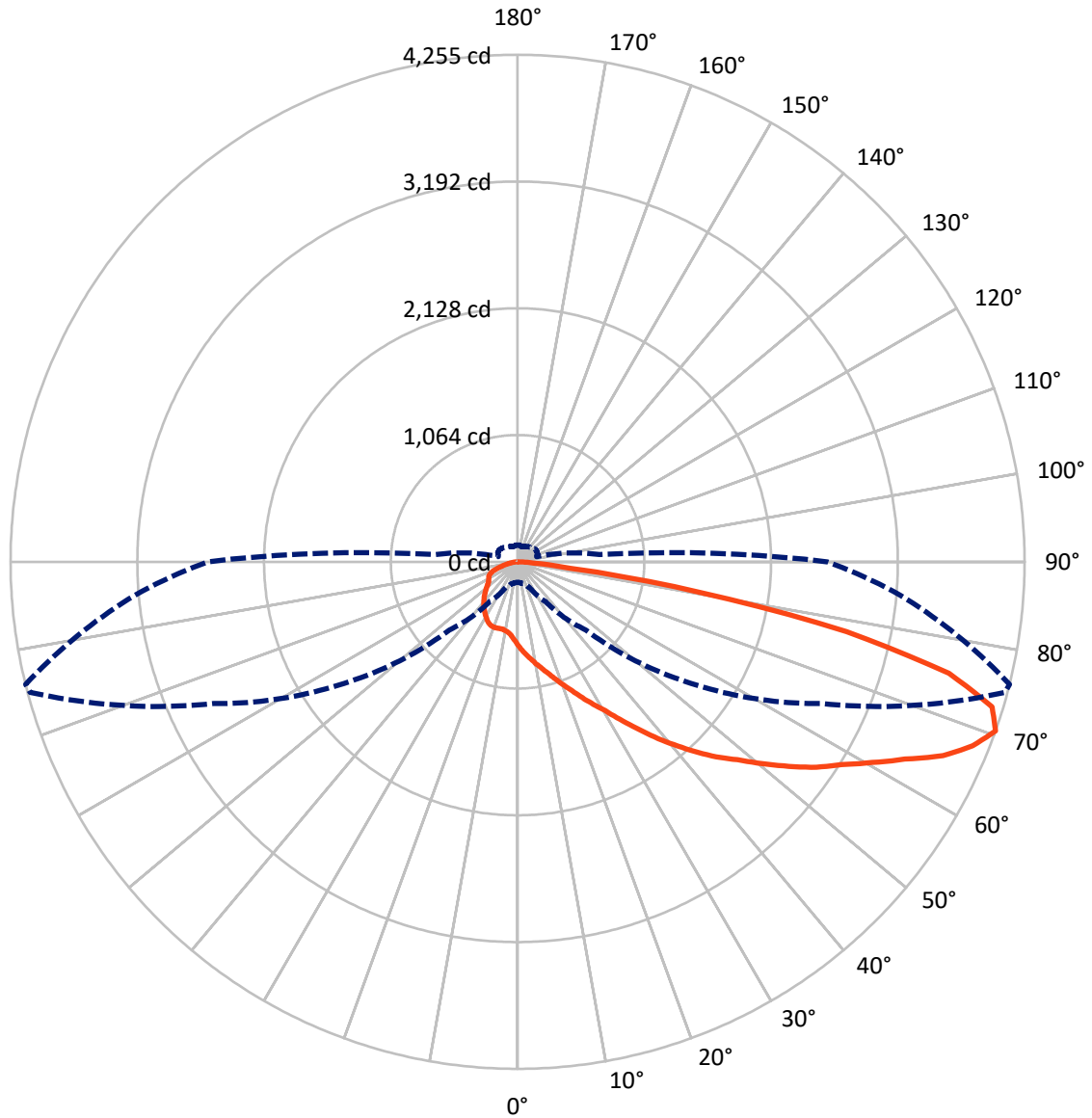
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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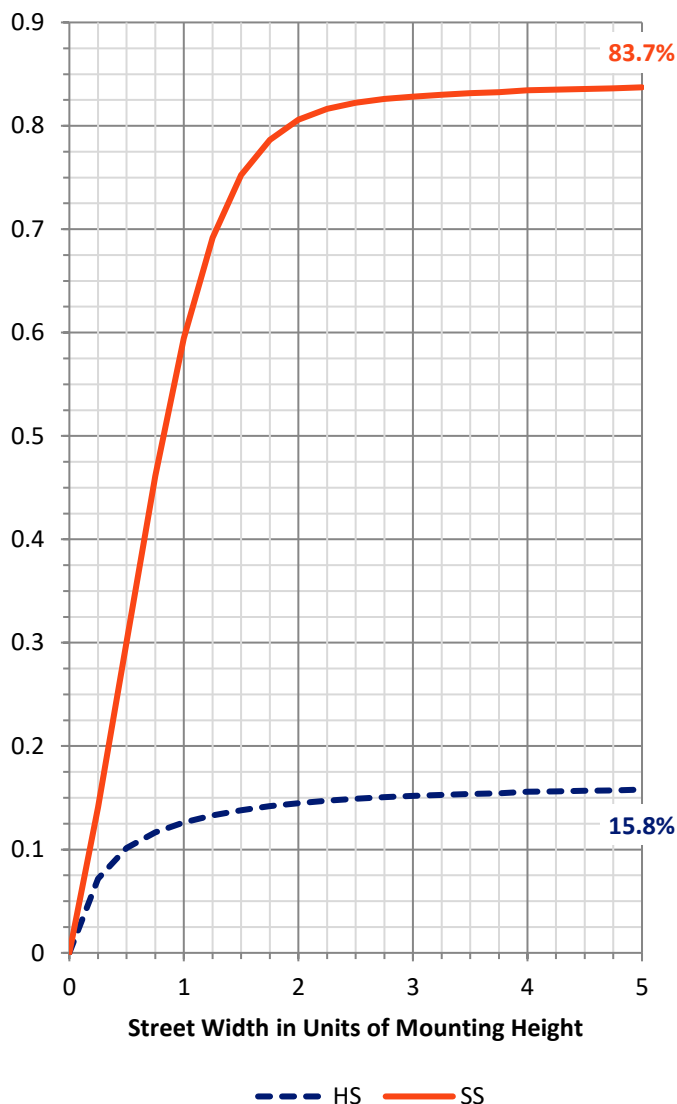
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.7	0.0	858.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	4495.3	0.0	4495.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	5354.0	0.0	5354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.3
10°-20°	225.9	4.2
20°-30°	416.3	7.8
30°-40°	697.5	13.0
40°-50°	991.1	18.5
50°-60°	1144.3	21.4
60°-70°	1051.9	19.6
70°-80°	663.3	12.4
80°-90°	95.4	1.8
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°	5354.0	100.0
0°-180°	5354.0	100.0

Coefficient of Utilization

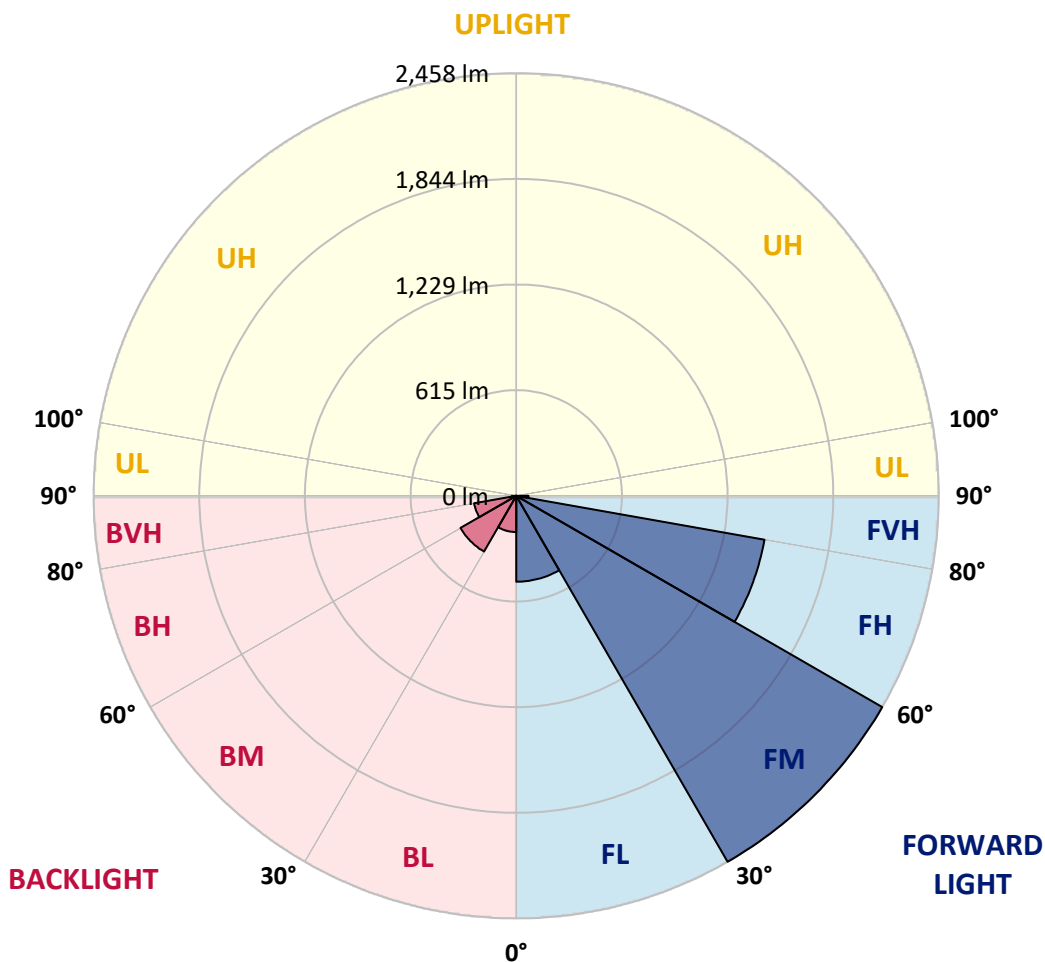


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.9	9.3			
FM (30°-60°)	2458.4	45.9			
FH (60°-80°)	1466.3	27.4			G1/1800
FVH (80°-90°)	70.7	1.3			G1/100
BL (0°-30°)	210.8	3.9	B1/500		
BM (30°-60°)	374.4	7.0	B1/1000		
BH (60°-80°)	248.9	4.6	B1/500		G1/500
BVH (80°-90°)	24.7	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	845.4	844.1	840.3	833.8	828.7	813.2	792.6	774.5	747.5	744.9	717.8
5°	921.5	916.3	916.3	909.9	903.4	886.7	860.9	828.7	790.0	787.4	735.9
7.5°	957.5	958.8	956.2	951.1	952.4	938.2	915.0	882.8	830.0	827.4	760.4
10°	1009.1	1007.8	1002.6	998.8	997.5	984.6	964.0	934.3	878.9	873.8	788.7
12.5°	1059.3	1055.5	1056.8	1055.5	1052.9	1040.0	1020.7	991.0	922.7	920.2	823.5
15°	1087.7	1086.4	1095.4	1098.0	1108.3	1096.7	1080.0	1046.5	984.6	974.3	864.7
17.5°	1105.7	1104.5	1113.5	1134.1	1153.4	1153.4	1148.3	1112.2	1043.9	1036.1	911.1
20°	1136.7	1141.8	1157.3	1174.0	1202.4	1207.6	1206.3	1190.8	1112.2	1104.5	962.7
22.5°	1198.5	1196.0	1208.8	1234.6	1260.4	1268.1	1269.4	1269.4	1190.8	1176.6	1015.5
25°	1331.3	1324.8	1314.5	1311.9	1342.9	1341.6	1337.7	1346.7	1273.3	1263.0	1076.1
27.5°	1583.9	1569.7	1529.7	1449.8	1431.8	1438.2	1418.9	1420.2	1367.4	1354.5	1127.7
30°	1823.6	1817.1	1779.8	1683.1	1581.3	1545.2	1511.7	1497.5	1471.7	1449.8	1183.1
32.5°	2040.1	2041.4	1996.3	1890.6	1786.2	1672.8	1614.8	1585.2	1595.5	1576.1	1259.1
35°	2187.0	2175.4	2147.0	2076.2	1962.8	1854.5	1743.7	1677.9	1733.4	1711.5	1335.1
37.5°	2273.3	2264.3	2241.1	2190.9	2134.2	2029.8	1889.3	1788.8	1897.0	1864.8	1431.8
40°	2317.2	2304.3	2281.1	2260.5	2233.4	2176.7	2053.0	1915.1	2046.5	2018.2	1527.2
42.5°	2322.3	2313.3	2300.4	2290.1	2299.1	2291.4	2212.8	2062.0	2203.8	2172.8	1636.7
45°	2318.4	2324.9	2309.4	2291.4	2309.4	2375.2	2375.2	2208.9	2359.7	2336.5	1741.1
47.5°	2321.0	2314.6	2309.4	2304.3	2306.8	2397.1	2487.3	2346.8	2509.2	2482.1	1863.5
50°	2214.1	2223.1	2266.9	2286.2	2297.8	2402.2	2577.5	2496.3	2694.8	2661.3	2000.1
52.5°	1873.8	1879.0	2078.7	2223.1	2269.5	2381.6	2640.6	2662.5	2877.8	2852.0	2147.0
55°	1443.4	1470.5	1659.9	2013.0	2205.0	2346.8	2660.0	2770.8	3064.6	3044.0	2295.3
57.5°	1188.2	1192.1	1301.6	1617.4	2001.4	2314.6	2679.3	2870.0	3232.2	3209.0	2449.9
60°	985.9	976.9	1043.9	1247.5	1662.5	2185.7	2683.2	2948.6	3426.8	3419.0	2609.7
62.5°	724.3	734.6	799.0	971.7	1300.3	1924.1	2663.8	3015.7	3658.7	3648.4	2787.6
65°	444.6	457.5	536.1	694.6	984.6	1527.2	2537.5	3050.5	3902.3	3925.5	2979.6
67.5°	235.8	244.9	291.3	420.1	675.3	1163.7	2233.4	3006.6	4108.5	4118.8	3163.9
70°	172.7	174.0	189.4	237.1	407.2	809.3	1778.5	2815.9	4234.8	4255.4	3224.4
72.5°	150.8	152.1	158.5	170.1	221.7	493.6	1274.6	2483.4	4182.0	4163.9	3122.6
75°	136.6	136.6	141.8	145.6	162.4	273.2	781.0	2032.3	3778.6	3738.6	2662.5
77.5°	117.3	117.3	122.4	127.6	140.5	176.6	408.5	1506.5	2889.4	2821.1	1821.0
80°	94.1	94.1	100.5	107.0	123.7	132.7	199.8	1007.8	1652.2	1551.6	828.7
82.5°	64.4	69.6	81.2	88.9	103.1	94.1	117.3	435.6	520.7	451.1	186.9
85°	38.7	41.2	58.0	67.0	77.3	50.3	72.2	167.5	155.9	136.6	42.5
87.5°	3.9	6.4	23.2	27.1	27.1	14.2	30.9	40.0	45.1	46.4	10.3
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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	702.4	686.9	657.3	630.2	603.1	585.1	567.0	560.6	551.6	545.1	550.3
5°	708.8	676.6	619.9	572.2	540.0	515.5	503.9	497.5	492.3	491.0	489.7
7.5°	716.5	668.9	592.8	540.0	509.1	497.5	494.9	494.9	494.9	496.2	497.5
10°	733.3	671.4	578.6	521.9	505.2	502.6	503.9	509.1	509.1	510.3	510.3
12.5°	752.6	677.9	568.3	519.4	509.1	510.3	511.6	514.2	514.2	518.1	516.8
15°	781.0	690.8	567.0	521.9	512.9	510.3	510.3	509.1	509.1	509.1	511.6
17.5°	817.1	708.8	568.3	521.9	509.1	503.9	500.0	496.2	491.0	493.6	491.0
20°	853.1	730.7	568.3	515.5	498.7	485.9	474.3	467.8	461.4	460.1	461.4
22.5°	898.3	756.5	561.9	501.3	476.8	458.8	442.0	433.0	422.7	418.8	416.3
25°	936.9	777.1	549.0	480.7	452.3	426.6	404.7	389.2	376.3	373.7	373.7
27.5°	976.9	795.2	529.7	454.9	417.6	389.2	364.7	345.4	332.5	331.2	329.9
30°	1014.2	810.6	503.9	426.6	386.6	353.1	324.8	308.0	296.4	290.0	286.1
32.5°	1063.2	831.2	479.4	398.2	350.5	317.0	291.3	277.1	261.6	251.3	247.4
35°	1125.1	855.7	452.3	367.3	318.3	284.8	269.3	248.7	229.4	217.8	213.9
37.5°	1194.7	890.5	424.0	335.1	286.1	261.6	252.6	220.4	199.8	195.9	194.6
40°	1281.0	924.0	391.8	301.6	255.2	248.7	233.3	199.8	189.4	188.2	186.9
42.5°	1367.4	960.1	360.8	268.1	230.7	233.3	211.4	194.6	185.6	183.0	181.7
45°	1467.9	996.2	329.9	238.4	211.4	211.4	199.8	189.4	181.7	179.1	179.1
47.5°	1573.6	1032.3	296.4	212.6	197.2	189.4	190.7	183.0	177.8	175.3	174.0
50°	1706.3	1067.1	265.5	194.6	188.2	177.8	181.7	176.6	174.0	171.4	170.1
52.5°	1831.3	1082.5	237.1	184.3	183.0	172.7	174.0	171.4	170.1	166.2	165.0
55°	1953.7	1078.7	215.2	179.1	176.6	171.4	168.8	167.5	166.2	162.4	161.1
57.5°	2090.3	1073.5	201.0	177.8	172.7	167.5	167.5	163.7	158.5	158.5	158.5
60°	2232.1	1056.8	194.6	177.8	171.4	167.5	165.0	161.1	155.9	157.2	155.9
62.5°	2391.9	1024.6	190.7	181.7	172.7	166.2	163.7	158.5	152.1	153.4	152.1
65°	2532.4	958.8	188.2	185.6	175.3	167.5	161.1	154.6	146.9	148.2	146.9
67.5°	2627.7	848.0	180.4	188.2	179.1	166.2	158.5	149.5	139.2	144.3	143.1
70°	2600.7	689.5	166.2	183.0	183.0	167.5	154.6	143.1	131.5	141.8	137.9
72.5°	2390.6	518.1	139.2	165.0	180.4	167.5	146.9	132.7	122.4	128.9	121.1
75°	1962.8	351.8	110.8	131.5	168.8	168.8	140.5	122.4	109.5	105.7	103.1
77.5°	1224.3	219.1	86.3	96.7	141.8	167.5	134.0	109.5	91.5	88.9	86.3
80°	484.6	117.3	68.3	69.6	104.4	153.4	125.0	92.8	73.5	70.9	65.7
82.5°	110.8	59.3	47.7	46.4	64.4	125.0	113.4	73.5	56.7	56.7	47.7
85°	33.5	30.9	30.9	29.6	32.2	64.4	87.6	50.3	38.7	27.1	23.2
87.5°	9.0	12.9	11.6	10.3	10.3	9.0	28.4	12.9	7.7	3.9	2.6
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)