

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: P595257

Luminaire Tested: **IST-PA1D-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-830-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4817 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

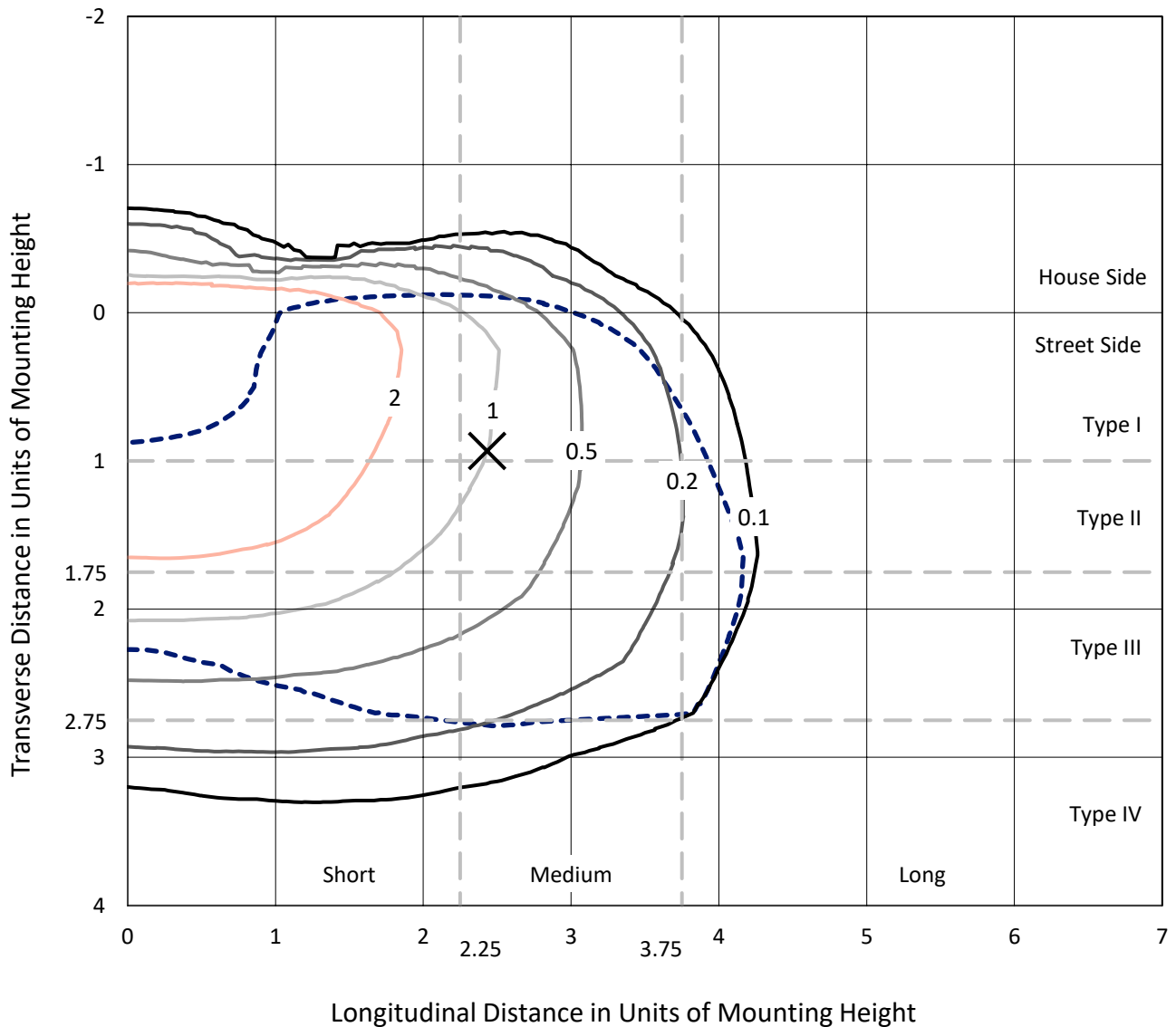
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595257
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Iso-Footcandle Lines of Horizontal Illumination

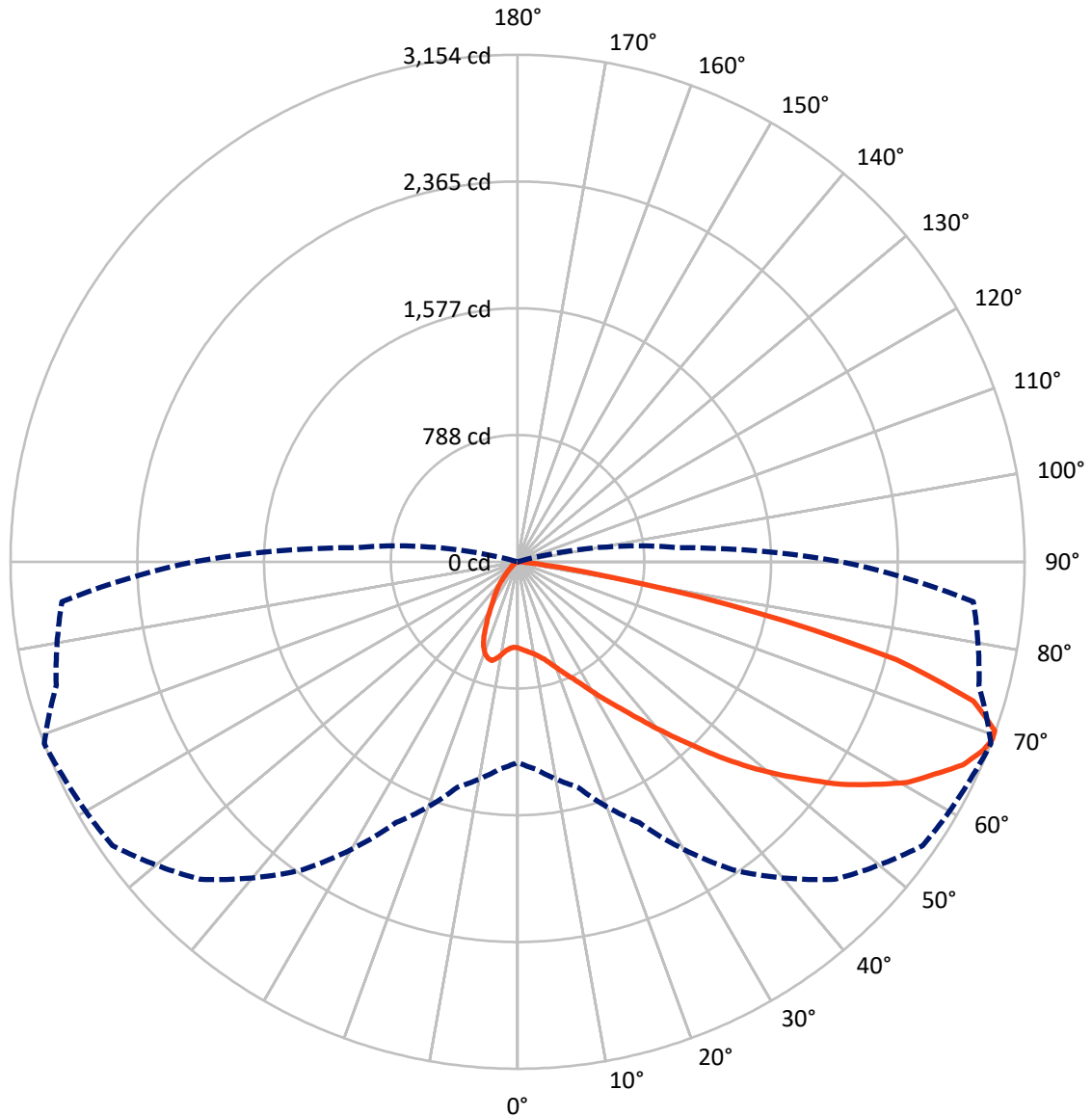
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P595257
CATALOG NUMBER: IST-PA1D-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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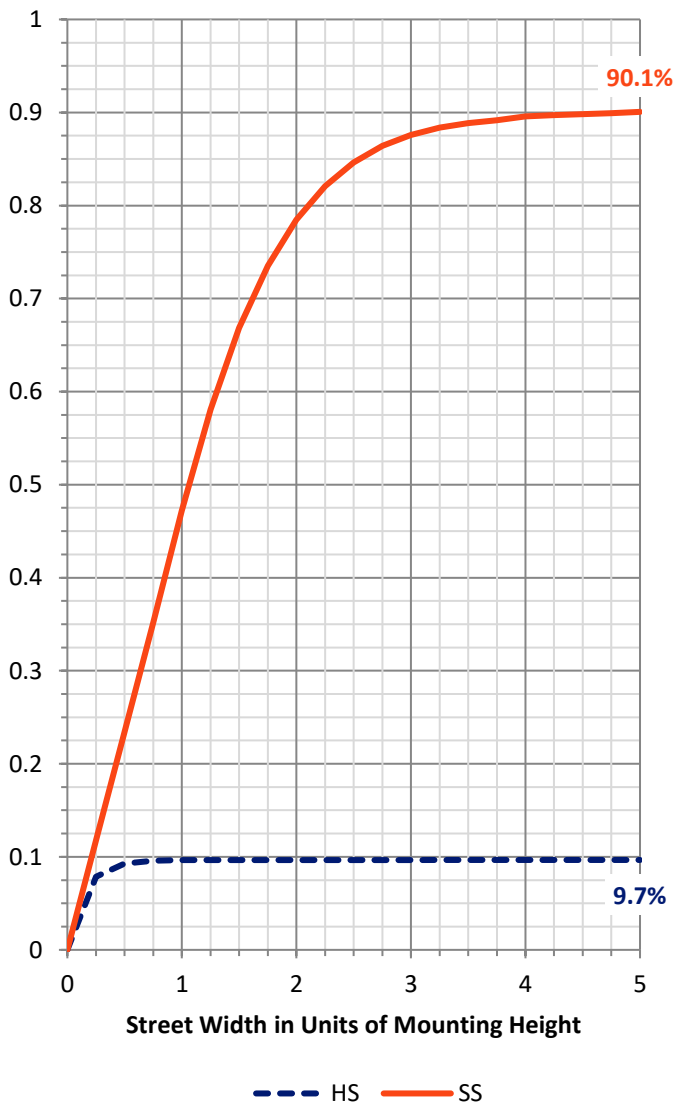
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.4	0.0	469.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4347.6	0.0	4347.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	4817.0	0.0	4817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.1
10°-20°	135.2	2.8
20°-30°	225.1	4.7
30°-40°	405.2	8.4
40°-50°	734.7	15.3
50°-60°	1148.2	23.8
60°-70°	1328.4	27.6
70°-80°	742.9	15.4
80°-90°	46.4	1.0
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°	4817.0	100.0
0°-180°	4817.0	100.0

Coefficient of Utilization

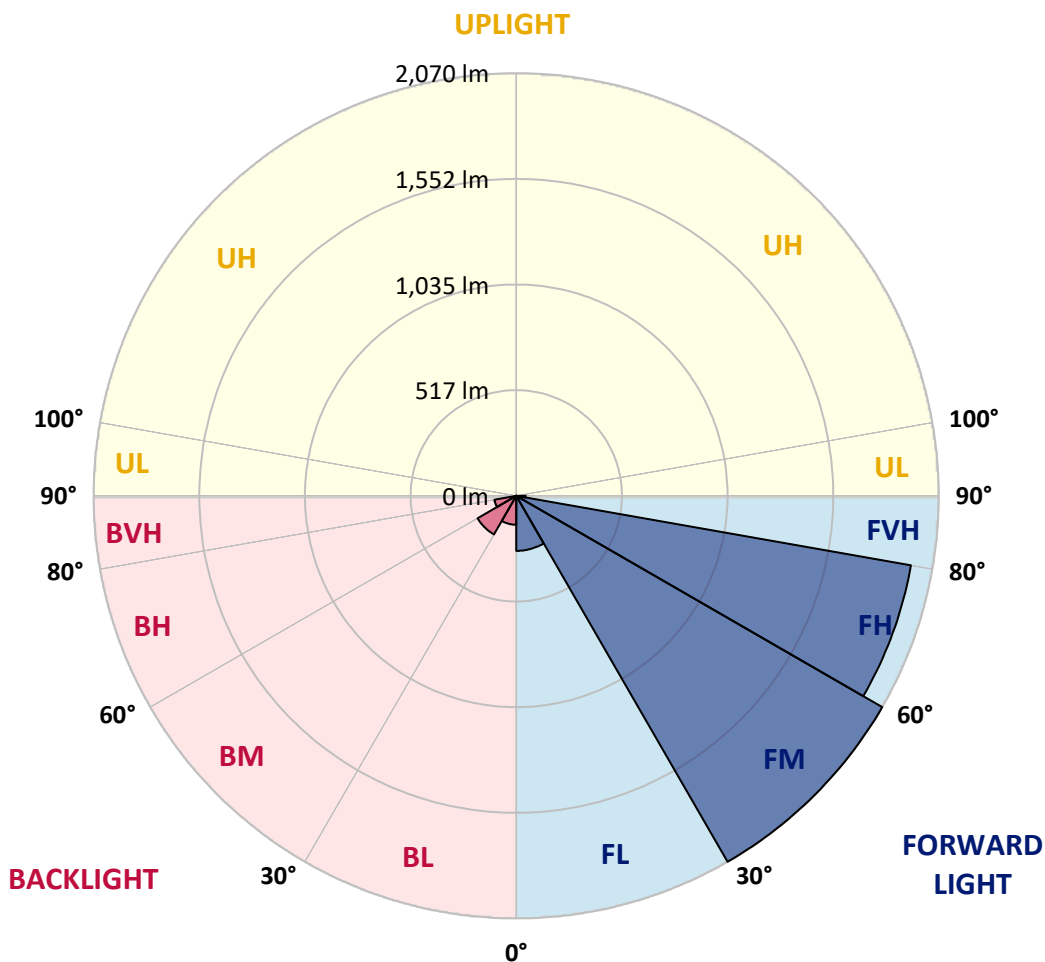


REPORT NUMBER: P595257
 CATALOG NUMBER: IST-PA1D-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.5	5.6			
FM (30°-60°)	2069.5	43.0			
FH (60°-80°)	1962.6	40.7			G2/5000
FVH (80°-90°)	46.0	1.0			G1/100
BL (0°-30°)	141.8	2.9	B1/500		
BM (30°-60°)	218.5	4.5	B0/220		
BH (60°-80°)	108.7	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	555.1	555.1	555.1	551.9	553.5	551.9	550.3	545.4	547.0	545.4	540.6
5°	535.8	537.4	542.2	545.4	553.5	556.7	558.3	558.3	556.7	553.5	550.3
7.5°	498.9	498.9	503.7	513.4	529.4	547.0	561.5	569.5	571.1	571.1	566.3
10°	489.3	489.3	495.7	502.1	518.2	539.0	561.5	580.7	583.9	587.1	585.5
12.5°	484.5	486.1	492.5	503.7	524.6	543.8	567.9	595.2	604.8	612.8	614.4
15°	490.9	490.9	497.3	508.5	532.6	559.9	590.4	620.8	630.5	641.7	649.7
17.5°	500.5	503.7	506.9	518.2	540.6	574.3	614.4	654.5	665.8	680.2	686.6
20°	516.6	516.6	519.8	529.4	553.5	593.6	649.7	697.8	707.5	717.1	725.1
22.5°	535.8	537.4	537.4	545.4	572.7	616.0	680.2	739.6	755.6	760.4	763.6
25°	593.6	590.4	579.1	574.3	595.2	641.7	717.1	789.3	806.9	811.7	805.3
27.5°	713.9	701.0	670.6	638.5	635.3	681.8	766.8	851.8	871.1	872.7	850.2
30°	864.7	866.3	816.6	747.6	701.0	725.1	821.4	930.5	949.7	941.7	906.4
32.5°	1050.8	1042.8	1005.9	906.4	813.3	792.5	880.7	1012.3	1034.7	1021.9	975.4
35°	1209.6	1214.4	1169.5	1081.3	964.1	896.8	952.9	1103.7	1131.0	1108.5	1050.8
37.5°	1342.7	1349.2	1321.9	1249.7	1145.4	1039.5	1047.6	1211.2	1248.1	1225.6	1153.4
40°	1490.3	1495.1	1483.9	1405.3	1312.3	1209.6	1174.3	1334.7	1384.5	1354.0	1278.6
42.5°	1652.4	1670.0	1650.8	1588.2	1491.9	1403.7	1350.8	1485.5	1535.3	1516.0	1414.9
45°	1873.7	1875.3	1852.9	1790.3	1690.9	1618.7	1554.5	1645.9	1710.1	1686.0	1567.3
47.5°	2037.4	2048.6	2035.8	1992.5	1912.2	1864.1	1775.9	1822.4	1889.8	1859.3	1724.6
50°	2162.5	2193.0	2181.8	2194.6	2154.5	2133.6	1998.9	2005.3	2071.1	2045.4	1885.0
52.5°	2231.5	2270.0	2273.2	2339.0	2372.7	2424.0	2215.4	2205.8	2247.5	2225.1	2048.6
55°	2221.9	2231.5	2311.7	2432.0	2563.6	2680.7	2427.2	2387.1	2444.9	2382.3	2221.9
57.5°	2128.8	2152.9	2294.1	2443.2	2675.9	2845.9	2610.1	2565.2	2613.3	2529.9	2399.9
60°	1995.7	2031.0	2212.2	2425.6	2741.6	2945.4	2788.2	2743.2	2786.6	2685.5	2602.1
62.5°	1875.3	1891.4	2058.2	2351.8	2703.1	2940.6	2926.1	2884.4	2910.1	2804.2	2775.3
65°	1703.7	1710.1	1875.3	2218.7	2618.1	2908.5	3001.5	3017.6	3044.8	2903.7	2898.8
67.5°	1439.0	1453.4	1617.1	1986.0	2476.9	2845.9	3060.9	3093.0	3125.0	2956.6	2921.3
69°	1248.1	1294.6	1451.8	1790.3	2340.6	2793.0	3076.9	3128.3	3153.9	2971.0	2845.9
70°	1092.5	1132.6	1313.9	1639.5	2220.3	2733.6	3088.1	3123.4	3149.1	2940.6	2722.4
72.5°	548.6	600.0	848.6	1196.8	1764.7	2462.5	3030.4	2991.9	2964.6	2704.7	2202.6
75°	211.8	219.8	364.2	681.8	1103.7	1808.0	2587.6	2515.4	2435.2	2051.8	1305.8
77.5°	117.1	115.5	158.8	301.6	470.0	883.9	1750.2	1634.7	1524.0	1102.1	529.4
80°	49.7	52.9	69.0	144.4	247.1	306.4	850.2	755.6	601.6	349.7	126.7
82.5°	30.5	32.1	48.1	88.2	171.7	117.1	275.9	235.8	173.3	94.6	30.5
85°	9.6	11.2	33.7	59.4	83.4	48.1	62.6	54.5	48.1	40.1	9.6
87.5°	1.6	1.6	12.8	32.1	22.5	8.0	6.4	11.2	17.6	19.3	3.2
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: P595257
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	539.0	535.8	532.6	531.0	531.0	527.8	526.2	524.6	524.6	523.0	523.0
5°	545.4	542.2	539.0	537.4	534.2	532.6	532.6	532.6	531.0	532.6	534.2
7.5°	561.5	556.7	555.1	553.5	553.5	548.6	540.6	519.8	498.9	492.5	486.1
10°	583.9	582.3	582.3	582.3	571.1	529.4	471.6	420.3	393.0	370.6	370.6
12.5°	616.0	616.0	614.4	609.6	551.9	450.8	361.0	283.9	239.0	213.4	216.6
15°	651.3	649.7	652.9	622.4	486.1	348.1	218.2	154.0	129.9	126.7	126.7
17.5°	688.2	691.4	688.2	588.8	399.5	215.0	129.9	117.1	113.9	113.9	113.9
20°	726.7	723.5	718.7	531.0	290.4	134.8	112.3	109.1	105.9	104.3	104.3
22.5°	765.2	762.0	729.9	457.2	181.3	110.7	105.9	99.5	94.6	93.0	93.0
25°	802.1	802.1	709.1	362.6	123.5	104.3	96.3	89.8	85.0	80.2	80.2
27.5°	848.6	851.8	675.4	253.5	104.3	96.3	86.6	77.0	70.6	67.4	67.4
30°	901.6	906.4	620.8	165.2	94.6	85.0	75.4	64.2	54.5	51.3	49.7
32.5°	964.1	969.0	558.3	109.1	85.0	73.8	62.6	48.1	38.5	36.9	35.3
35°	1044.4	1033.1	482.9	86.6	73.8	62.6	48.1	33.7	27.3	25.7	25.7
37.5°	1143.8	1119.8	396.2	75.4	62.6	49.7	35.3	22.5	17.6	17.6	16.0
40°	1257.7	1190.3	306.4	67.4	52.9	38.5	22.5	14.4	11.2	11.2	11.2
42.5°	1382.8	1249.7	218.2	59.4	43.3	27.3	14.4	8.0	6.4	6.4	6.4
45°	1527.2	1304.2	149.2	51.3	36.9	19.3	8.0	3.2	3.2	3.2	3.2
47.5°	1671.6	1339.5	99.5	44.9	27.3	11.2	4.8	1.6	1.6	1.6	1.6
50°	1817.6	1366.8	77.0	38.5	19.3	6.4	1.6	0.0	0.0	0.0	0.0
52.5°	1947.5	1386.1	62.6	32.1	12.8	4.8	1.6	0.0	0.0	0.0	0.0
55°	2059.8	1387.7	54.5	25.7	9.6	3.2	0.0	0.0	0.0	0.0	0.0
57.5°	2173.7	1374.8	46.5	19.3	6.4	1.6	0.0	0.0	0.0	0.0	0.0
60°	2242.7	1341.1	36.9	14.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0
62.5°	2284.4	1285.0	28.9	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0
65°	2260.4	1214.4	20.9	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2148.1	1105.3	14.4	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
69°	2014.9	1005.9	12.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
70°	1897.8	928.9	11.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1413.3	598.4	9.6	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	794.1	200.5	6.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	298.4	51.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.8	12.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	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)