

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: INVUE

Report Number: P401837

Luminaire Tested: **ENT-SA1F-735-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1F-735-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5535 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66.1
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: 25 FT

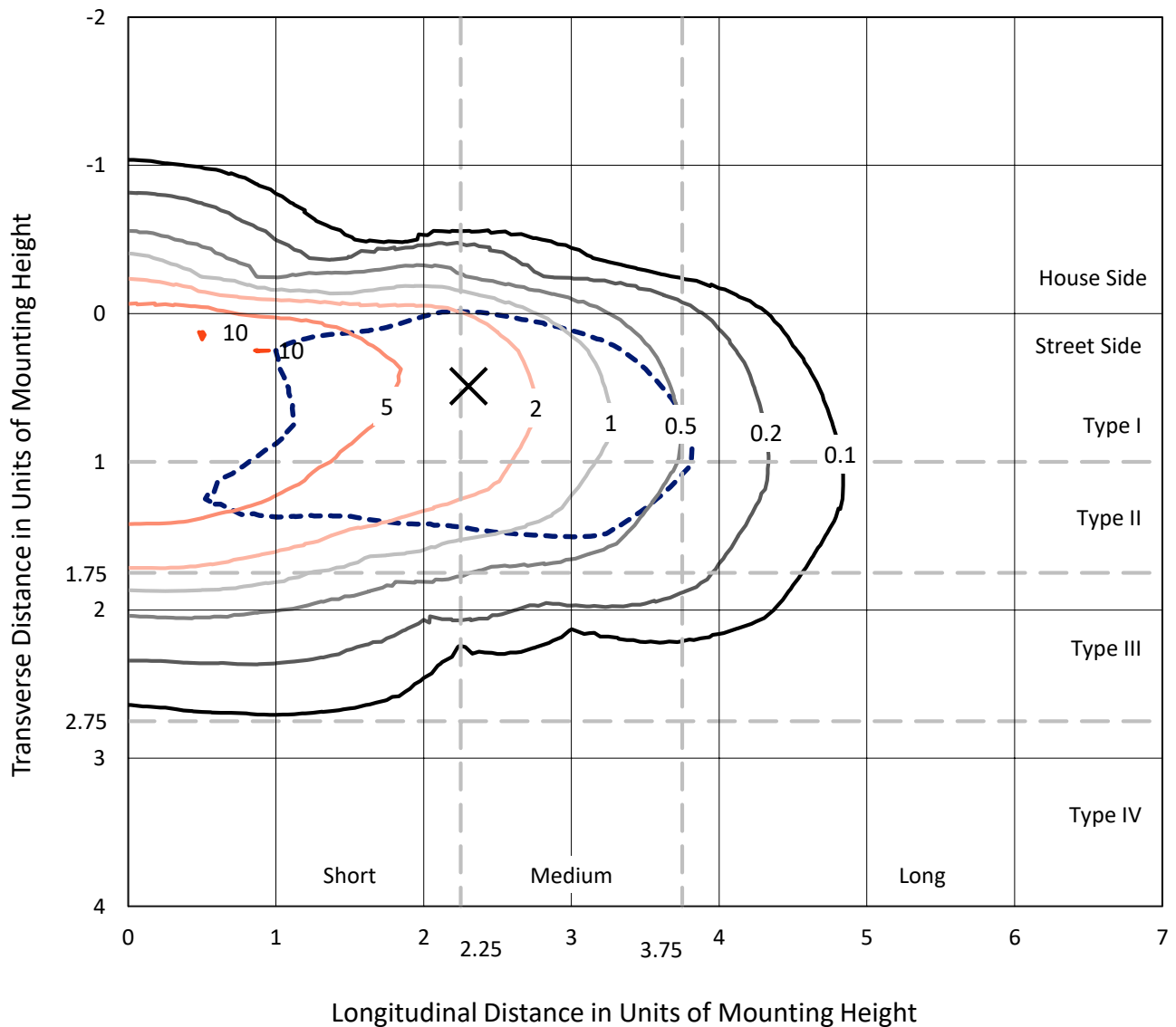


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

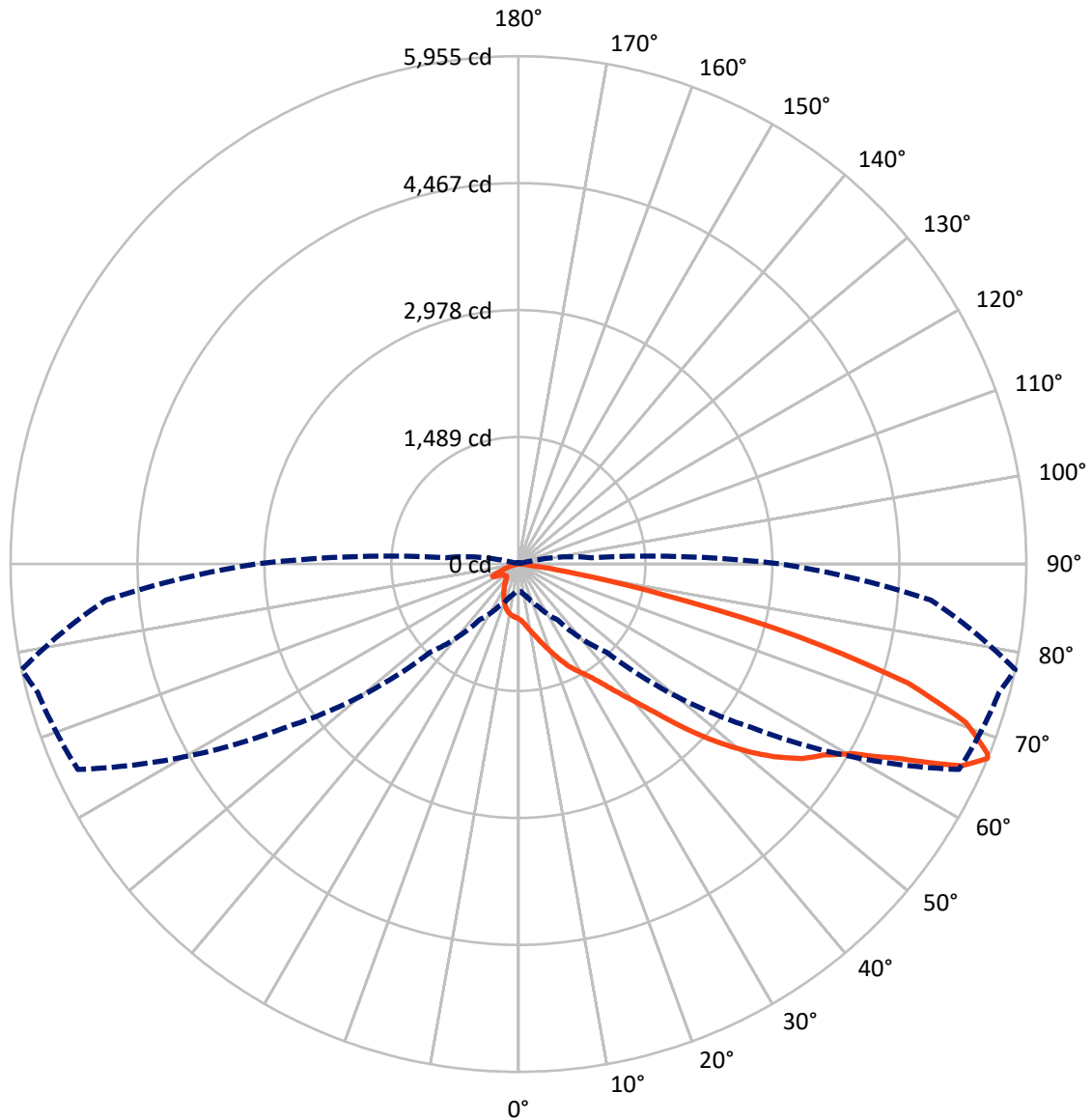


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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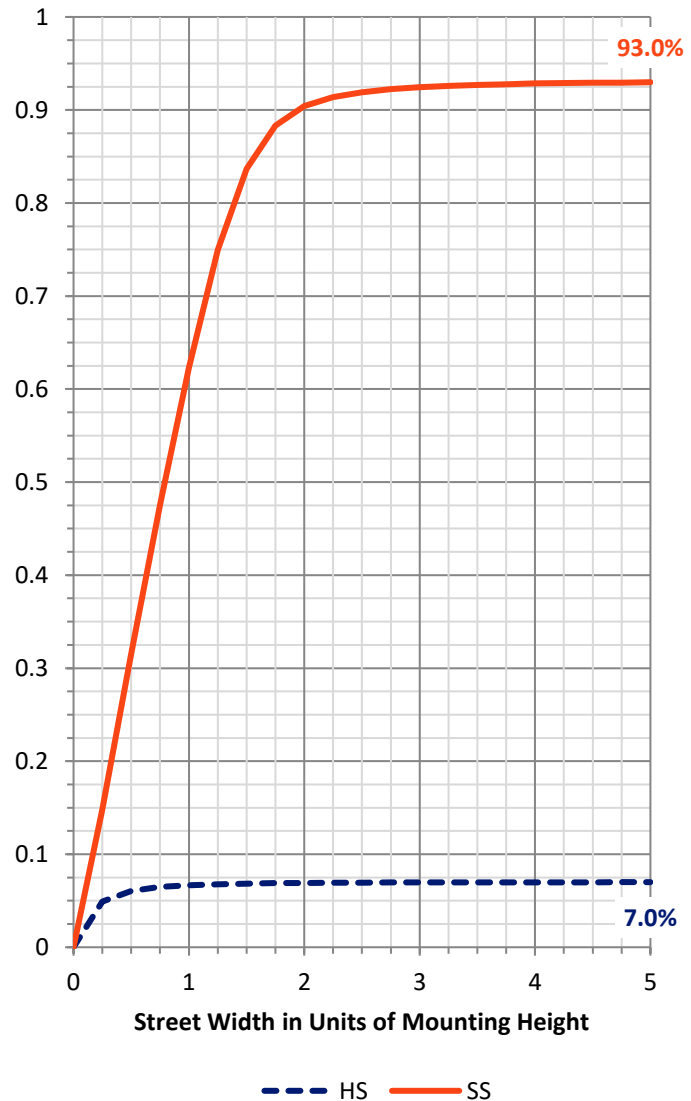
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	390.5	0.0	390.5
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	5144.5	0.0	5144.5
	% Fixture	92.9	0.0	92.9
Total	Lumens	5535.0	0.0	5535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.1
10°-20°	177.4	3.2
20°-30°	313.5	5.7
30°-40°	552.7	10.0
40°-50°	950.0	17.2
50°-60°	1430.0	25.8
60°-70°	1407.2	25.4
70°-80°	614.9	11.1
80°-90°	27.2	0.5
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°	5535.0	100.0
0°-180°	5535.0	100.0



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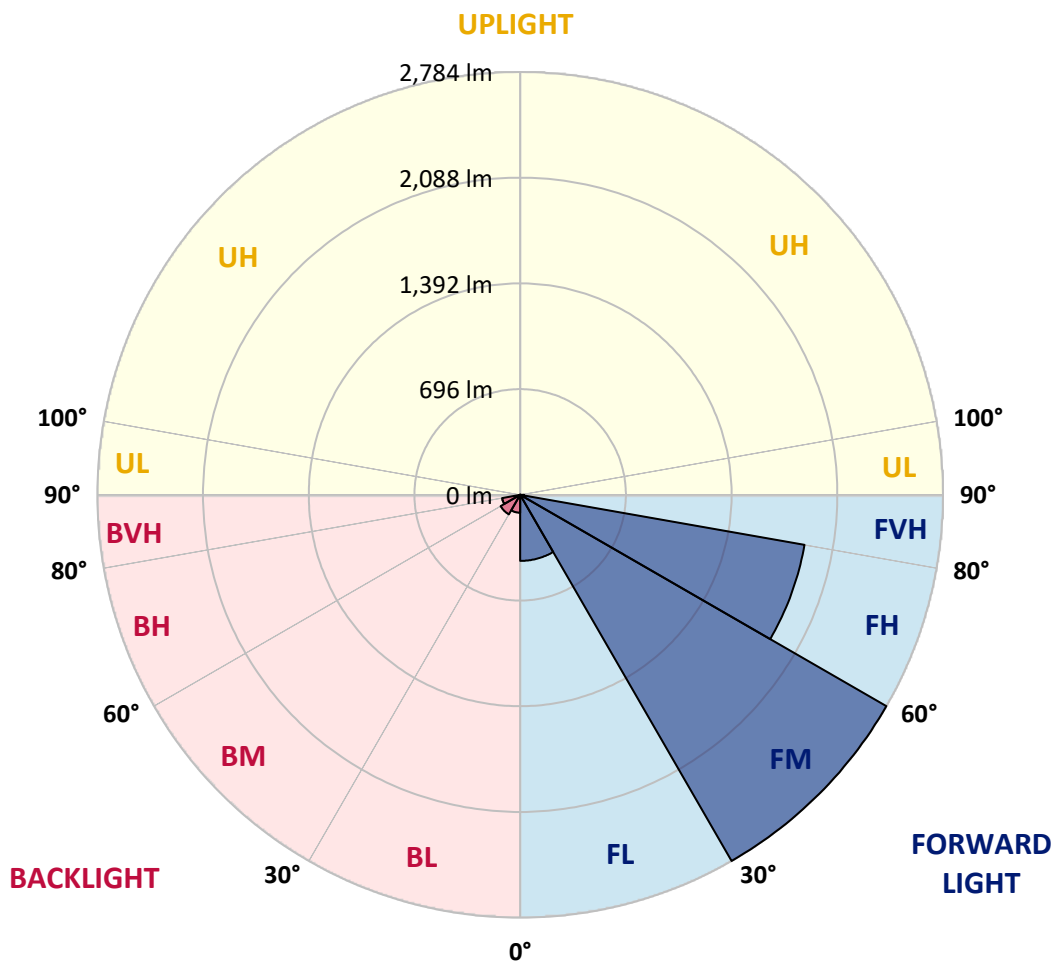
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.9	7.9			
FM (30°-60°)	2784.2	50.3			
FH (60°-80°)	1901.0	34.3			G2/5000
FVH (80°-90°)	24.4	0.4			G1/100
BL (0°-30°)	118.0	2.1	B1/500		
BM (30°-60°)	148.6	2.7	B0/220		
BH (60°-80°)	121.1	2.2	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	737.3	740.4	736.2	733.1	724.8	714.4	704.0	688.4	671.8	665.5	655.1
5°	827.7	827.7	827.7	819.4	812.1	792.4	768.5	744.6	713.4	701.9	678.0
7.5°	875.6	876.6	879.7	879.7	875.6	862.1	836.1	809.0	762.2	746.6	708.2
10°	880.8	884.9	893.3	905.7	915.1	922.4	906.8	877.7	821.5	802.8	746.6
12.5°	867.3	869.3	882.9	905.7	935.9	966.0	967.1	949.4	887.0	861.0	793.4
15°	836.1	839.2	858.9	895.3	942.1	996.2	1027.4	1022.2	964.0	933.8	845.4
17.5°	786.1	789.3	814.2	868.3	936.9	1016.0	1082.5	1108.5	1039.9	1010.8	898.5
20°	784.1	785.1	794.5	835.0	916.1	1027.4	1136.6	1197.9	1132.4	1101.2	960.8
22.5°	917.2	908.9	888.1	862.1	897.4	1024.3	1185.5	1292.6	1246.8	1197.9	1032.6
25°	1065.9	1069.0	1046.1	984.8	940.1	1019.1	1222.9	1399.7	1353.9	1305.0	1106.4
27.5°	1221.9	1216.7	1196.9	1140.7	1065.9	1056.5	1249.9	1486.0	1456.9	1397.6	1171.9
30°	1373.7	1369.5	1355.0	1297.8	1216.7	1153.2	1270.7	1564.0	1554.6	1489.1	1225.0
32.5°	1547.3	1554.6	1535.9	1461.0	1362.2	1284.3	1315.4	1646.1	1673.2	1593.1	1280.1
35°	1749.1	1749.1	1710.6	1642.0	1540.1	1430.9	1404.9	1736.6	1823.9	1737.6	1367.4
37.5°	1915.5	1929.0	1906.1	1807.3	1711.6	1597.3	1541.1	1847.9	2010.1	1922.7	1484.9
40°	2046.5	2069.4	2070.4	1972.6	1884.3	1809.4	1731.4	2004.9	2244.1	2131.8	1625.3
42.5°	2168.1	2172.3	2190.0	2133.8	2045.4	2025.7	1945.6	2191.0	2536.3	2404.2	1812.5
45°	2323.1	2331.4	2321.0	2279.4	2203.5	2229.5	2184.8	2427.1	2864.9	2753.6	2033.0
47.5°	2550.8	2570.6	2555.0	2480.1	2387.6	2436.4	2404.2	2662.1	3236.1	3100.9	2272.1
50°	2764.0	2779.6	2796.2	2772.3	2679.8	2633.0	2593.5	2910.6	3554.3	3439.9	2507.1
52.5°	2786.9	2801.4	2892.9	2977.2	3038.5	2915.8	2792.1	3162.3	3848.6	3752.9	2722.4
55°	2638.2	2647.5	2800.4	2966.8	3248.6	3290.2	3084.3	3410.8	4095.0	4029.5	2866.9
57.5°	2224.3	2263.8	2481.2	2735.9	3196.6	3512.7	3499.2	3699.9	4255.2	4225.0	3053.1
60°	1461.0	1504.7	1764.7	2150.5	2813.9	3453.4	3954.7	4133.5	4479.8	4513.1	3379.6
62.5°	757.0	808.0	1036.8	1378.9	2039.2	3007.3	4109.6	4845.8	4910.3	5023.7	3961.9
65°	432.6	443.0	557.4	808.0	1262.4	2153.6	3923.5	5550.9	5477.0	5706.9	4705.5
67°	321.3	321.3	401.4	549.1	799.7	1464.1	3346.3	5699.6	5833.7	5955.4	4855.2
67.5°	288.0	303.6	372.3	506.4	717.5	1298.8	3131.1	5660.1	5856.6	5932.5	4803.2
70°	197.6	208.0	267.2	362.9	483.5	675.9	2052.7	5006.0	5642.4	5565.4	4352.9
72.5°	118.5	122.7	176.8	261.0	360.8	361.9	1119.9	3799.7	4781.4	4780.3	3555.3
75°	73.8	78.0	104.0	174.7	252.7	226.7	517.9	2585.1	3433.7	3367.1	2382.4
77.5°	41.6	47.8	62.4	95.7	160.1	144.5	218.4	1448.6	1855.1	1740.8	1183.4
80°	16.6	19.8	35.4	45.8	90.5	86.3	89.4	509.5	750.8	677.0	396.2
82.5°	4.2	5.2	12.5	21.8	35.4	35.4	28.1	139.3	177.8	165.3	101.9
85°	0.0	0.0	1.0	1.0	1.0	2.1	7.3	15.6	18.7	21.8	16.6
87.5°	0.0	0.0	0.0	1.0	1.0	1.0	2.1	3.1	3.1	3.1	3.1
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°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	646.8	639.5	625.0	609.4	593.8	581.3	570.9	556.3	554.3	554.3	554.3
5°	660.3	643.7	610.4	577.1	543.9	513.7	491.9	474.2	458.6	453.4	457.5
7.5°	680.1	649.9	591.7	533.5	481.5	438.8	407.6	382.7	371.2	365.0	359.8
10°	706.1	659.3	566.7	481.5	416.0	365.0	331.7	307.8	296.4	289.1	290.1
12.5°	734.2	666.6	535.5	425.3	352.5	305.7	277.6	257.9	239.2	227.7	230.9
15°	762.2	671.8	497.1	373.3	303.6	262.0	222.5	187.2	174.7	172.6	171.6
17.5°	793.4	670.7	454.4	324.4	262.0	203.8	164.3	160.1	159.1	159.1	158.1
20°	825.7	665.5	405.6	283.9	220.5	154.9	148.7	146.6	143.5	142.5	141.4
22.5°	861.0	656.2	360.8	248.5	164.3	141.4	133.1	126.9	121.7	118.5	119.6
25°	893.3	638.5	317.2	215.3	140.4	126.9	115.4	106.1	100.9	96.7	97.7
27.5°	915.1	607.3	279.7	173.7	128.9	112.3	98.8	89.4	82.2	79.0	79.0
30°	917.2	562.6	246.5	142.5	117.5	98.8	84.2	73.8	69.7	67.6	66.6
32.5°	915.1	516.8	221.5	131.0	107.1	86.3	71.8	64.5	60.3	58.2	58.2
35°	925.5	470.0	198.6	120.6	95.7	75.9	63.4	56.2	53.0	51.0	51.0
37.5°	956.7	437.8	174.7	110.2	85.3	66.6	57.2	51.0	47.8	45.8	45.8
40°	999.3	410.8	145.6	99.8	74.9	60.3	52.0	46.8	42.6	40.6	40.6
42.5°	1074.2	400.4	121.7	89.4	65.5	54.1	47.8	41.6	37.4	35.4	35.4
45°	1185.5	405.6	111.3	80.1	59.3	48.9	42.6	36.4	32.2	31.2	31.2
47.5°	1308.2	427.4	104.0	71.8	54.1	45.8	38.5	32.2	28.1	27.0	27.0
50°	1445.4	461.7	97.7	63.4	48.9	41.6	34.3	28.1	25.0	23.9	23.9
52.5°	1576.5	505.4	91.5	57.2	45.8	37.4	30.2	25.0	22.9	21.8	21.8
55°	1676.3	533.5	86.3	53.0	42.6	34.3	27.0	23.9	20.8	19.8	19.8
57.5°	1815.6	580.3	80.1	47.8	38.5	31.2	25.0	21.8	18.7	18.7	18.7
60°	2098.5	706.1	70.7	43.7	34.3	28.1	23.9	19.8	17.7	16.6	16.6
62.5°	2608.0	914.1	61.4	40.6	30.2	25.0	20.8	17.7	15.6	13.5	13.5
65°	3098.8	1000.4	52.0	35.4	27.0	21.8	18.7	15.6	11.4	9.4	9.4
67°	3071.8	855.8	43.7	30.2	22.9	19.8	15.6	12.5	8.3	5.2	5.2
67.5°	2999.0	796.5	42.6	29.1	21.8	18.7	15.6	11.4	7.3	4.2	4.2
70°	2548.7	557.4	33.3	22.9	18.7	16.6	12.5	8.3	4.2	2.1	2.1
72.5°	2070.4	441.9	26.0	18.7	15.6	12.5	10.4	5.2	3.1	1.0	1.0
75°	1464.1	271.4	22.9	16.6	12.5	9.4	8.3	5.2	3.1	2.1	1.0
77.5°	722.7	124.8	18.7	14.6	11.4	9.4	7.3	6.2	5.2	4.2	2.1
80°	212.1	40.6	12.5	10.4	10.4	9.4	8.3	7.3	6.2	5.2	3.1
82.5°	47.8	14.6	4.2	5.2	7.3	7.3	7.3	5.2	4.2	2.1	1.0
85°	6.2	3.1	3.1	3.1	4.2	4.2	3.1	2.1	2.1	0.0	0.0
87.5°	2.1	2.1	2.1	3.1	3.1	3.1	2.1	1.0	1.0	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)