

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: LUMARK

Report Number: P971435

Luminaire Tested: **NAV-SB6D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57055.6 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 440.1
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: 24 FT



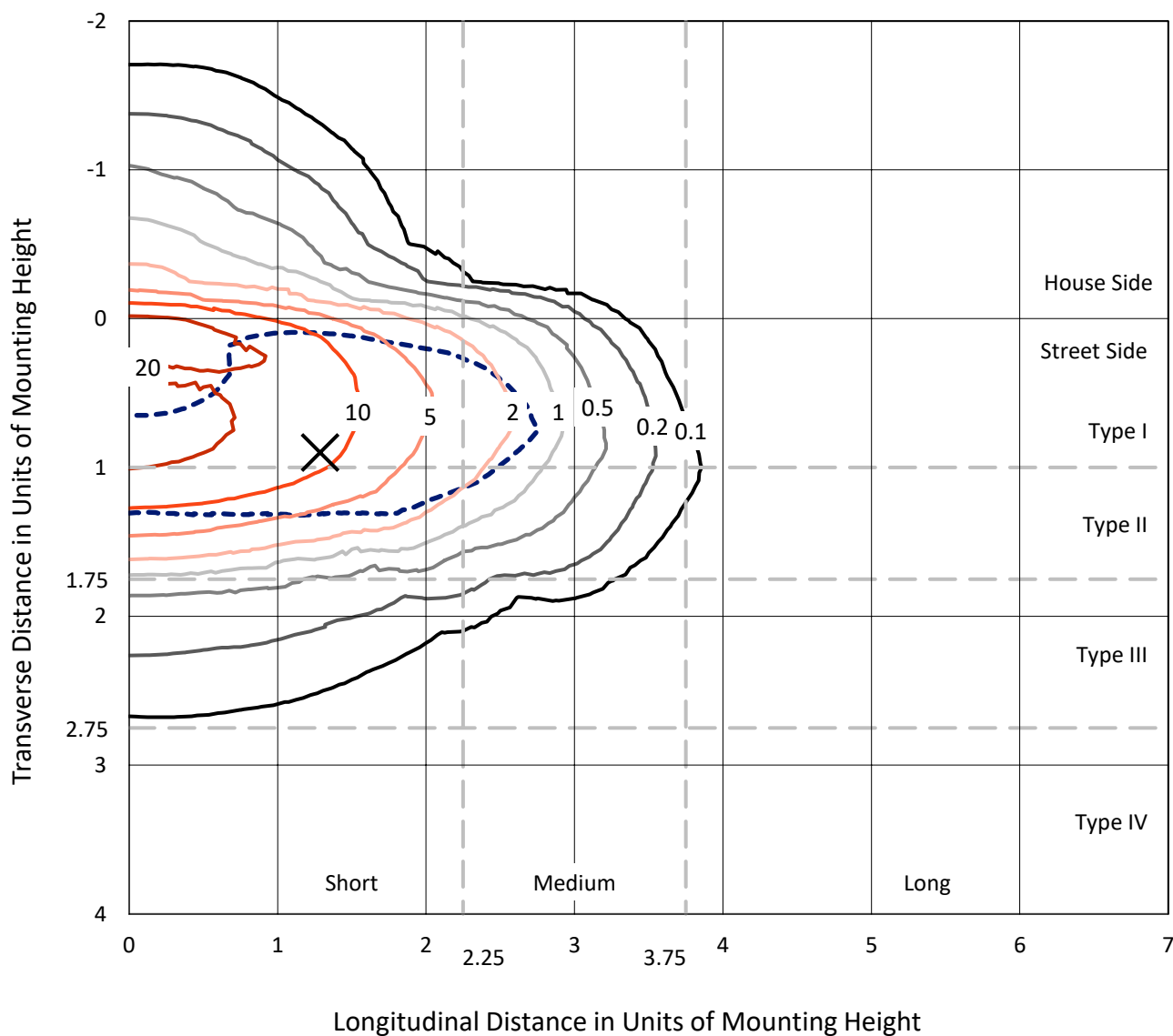
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

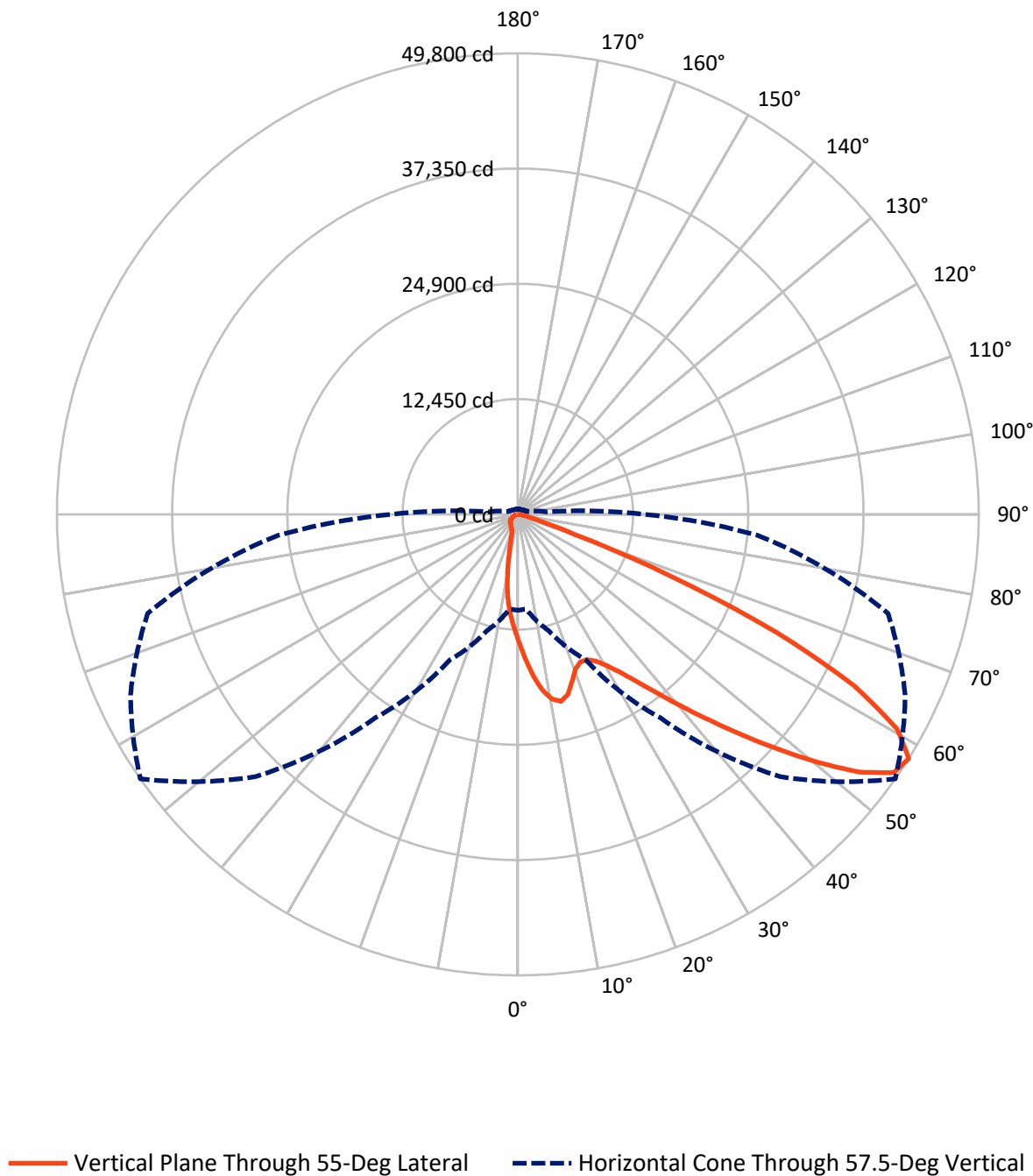


Based on 25 foot mounting height. Maximum calculated value = 31.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4455.8	0.0	4455.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	52599.8	0.0	52599.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	57055.6	0.0	57055.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.3	2.2
10°-20°	3090.1	5.4
20°-30°	4944.1	8.7
30°-40°	8368.2	14.7
40°-50°	13738.7	24.1
50°-60°	15099.8	26.5
60°-70°	8661.3	15.2
70°-80°	1769.8	3.1
80°-90°	104.4	0.2
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°	57055.6	100.0
0°-180°	57055.6	100.0

Coefficient of Utilization



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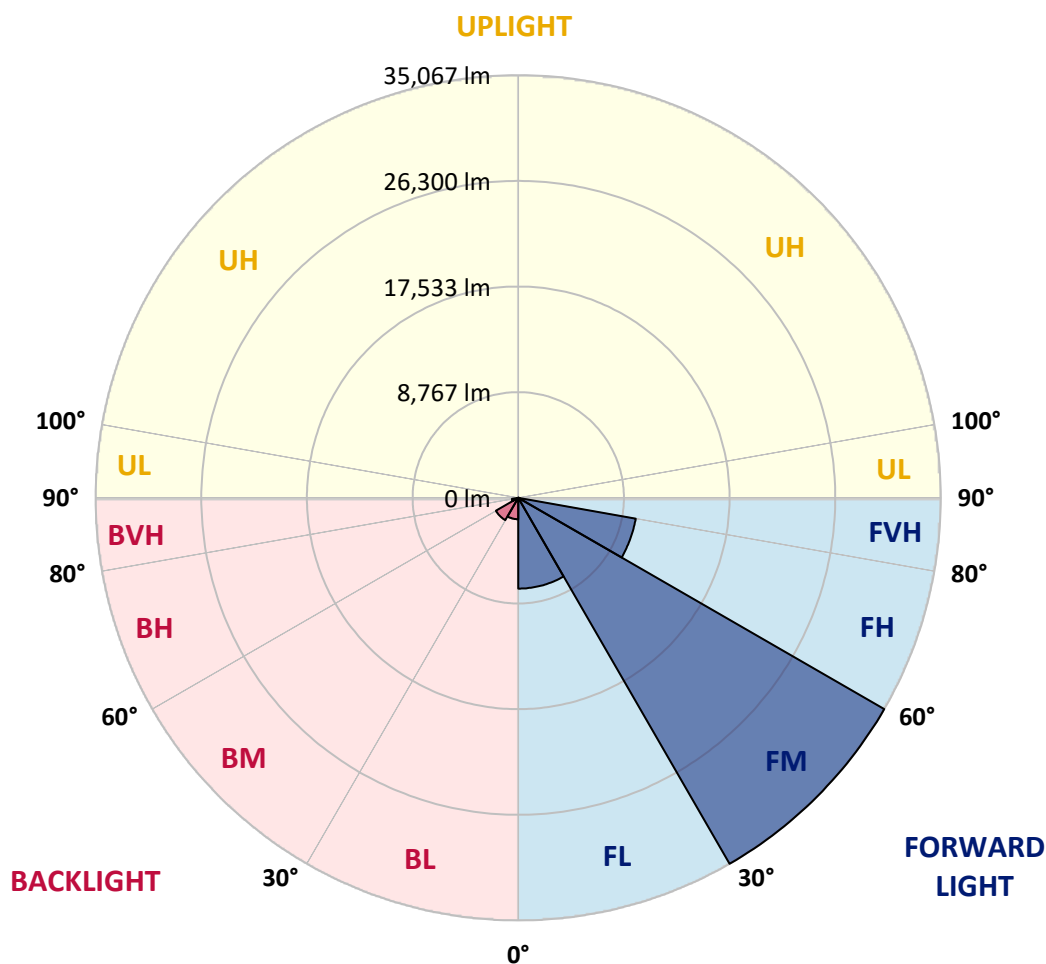
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7534.5	13.2			
FM	(30°-60°)	35066.8	61.5			
FH	(60°-80°)	9901.1	17.4			G4/12000
FVH	(80°-90°)	97.4	0.2			G1/100
BL	(0°-30°)	1778.9	3.1	B3/2500		
BM	(30°-60°)	2140.0	3.8	B2/2500		
BH	(60°-80°)	529.9	0.9	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0
2.5°	17059.6	16845.0	16813.3	16771.0	16363.0	16056.9	15613.6	15128.1	14582.8	14026.9	13780.6
5°	19708.8	19539.9	19508.2	19311.2	18846.8	18326.1	17538.1	16542.4	15525.7	14329.5	13815.9
7.5°	20222.4	20190.8	20335.0	20328.0	20264.7	19853.0	19188.1	18002.5	16475.5	14702.4	13907.3
10°	17932.1	18013.0	18442.2	18818.7	19835.4	20426.5	20282.2	19304.1	17453.6	15128.1	14009.3
12.5°	15845.8	15750.9	16056.9	16482.6	17664.7	19423.8	20736.1	20391.2	18572.4	15610.1	14160.6
15°	14537.1	14498.3	14670.7	14867.7	15768.4	17541.5	20208.4	21274.4	19648.9	16180.0	14389.3
17.5°	14118.4	14086.8	14139.5	14188.8	14772.8	16144.9	18952.4	21816.1	20679.8	16830.9	14642.6
20°	14459.7	14417.4	14410.4	14371.7	14614.4	15550.3	17816.0	21854.8	21605.1	17421.9	14860.8
22.5°	15455.3	15406.1	15233.7	15078.9	15100.0	15631.2	17309.4	21467.8	22301.6	17974.3	14997.9
25°	17260.1	17179.2	16820.4	16299.7	15969.0	16194.1	17386.8	20957.8	22966.6	18407.1	14931.1
27.5°	19518.8	19413.2	18952.4	18178.4	17421.9	17147.5	17946.2	20605.9	23518.9	18737.7	14786.9
30°	21731.7	21594.5	21140.6	20539.1	19434.3	18568.9	18955.8	20760.7	24176.9	19082.5	14596.9
32.5°	24120.5	23990.3	23388.8	22643.0	21728.2	20563.7	20338.6	21517.1	24982.5	19564.5	14463.2
35°	27142.6	26938.6	26083.7	25066.9	24095.9	22917.4	22210.2	22822.3	26055.5	20299.8	14537.1
37.5°	30583.4	30309.0	29387.3	27983.5	26716.9	25397.7	24489.9	24616.6	27628.2	21284.9	14765.7
40°	33827.2	33577.4	32726.0	31403.1	29812.9	28212.2	27244.7	26963.2	29798.9	22484.6	15166.8
42.5°	35772.7	35547.5	35188.7	34629.3	33288.9	31656.5	30435.6	29827.0	32367.1	23920.0	15655.8
45°	35881.8	35684.8	36166.7	36817.6	36553.8	35466.6	33978.4	32863.1	34945.9	25267.5	16162.4
47.5°	34136.8	34003.0	35466.6	37739.4	38872.2	39329.6	37957.5	35646.0	37074.5	26235.0	16370.1
50°	29380.2	29331.0	32342.5	36515.0	39755.2	42714.0	42154.7	38235.5	38724.5	26734.6	16173.0
52.5°	25475.0	25295.6	27051.2	32595.8	38471.1	44494.2	46256.8	40775.5	39878.4	26829.6	15712.1
55°	19321.8	19163.4	21365.8	26038.0	34330.2	43861.0	49257.8	43396.6	40705.2	26586.8	14885.4
57.5°	10364.5	10266.0	13048.9	17330.5	26836.6	40061.4	49799.6	46168.9	41401.8	25943.0	13727.9
60°	4035.3	4017.8	5059.1	8408.4	16310.2	32592.3	47066.1	47833.0	41838.0	25151.3	12760.4
62.5°	2441.7	2494.3	2663.3	3775.0	7205.2	20247.0	40765.0	45940.2	42130.1	24426.7	11961.7
65°	2019.5	2022.9	2044.1	2592.8	3451.3	8471.7	30689.0	39713.0	41408.8	23135.5	10828.9
67.5°	1730.9	1762.6	1843.6	2058.1	2434.6	3715.2	17668.2	30762.8	37021.7	20130.9	9062.8
70°	1365.1	1407.2	1509.3	1692.3	1878.7	2325.5	6529.8	20468.7	28282.5	15173.9	6853.4
72.5°	1150.5	1146.9	1199.7	1375.7	1491.7	1635.9	2512.0	11469.2	16436.9	7243.9	3391.5
75°	890.1	925.3	992.1	1150.5	1220.8	1185.6	1361.5	4190.1	5889.4	2195.3	1153.9
77.5°	696.6	724.8	784.5	939.3	1009.7	840.8	784.5	1498.8	1892.8	788.0	520.7
80°	313.1	337.7	534.7	693.1	823.3	580.5	425.7	767.0	840.8	358.9	263.8
82.5°	56.3	95.0	313.1	365.9	422.2	376.5	221.6	397.6	411.6	144.2	91.4
85°	3.5	7.1	109.1	133.7	168.9	123.1	66.8	158.4	137.2	49.3	35.2
87.5°	0.0	0.0	0.0	3.5	3.5	17.6	21.1	28.2	21.1	17.6	14.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0	13749.0
2.5°	13527.3	13027.7	12542.3	12144.7	11912.6	11518.4	11258.1	11216.0	11106.9	11201.8
5°	13267.0	12373.4	11469.2	10660.0	9995.1	9136.6	8496.3	8225.5	7989.8	8070.6
7.5°	13143.9	11733.1	10325.8	8943.2	7521.9	6149.8	5129.5	4703.8	4380.1	4425.8
10°	12978.6	11068.2	8862.3	6751.4	4848.0	3493.5	2789.9	2529.6	2385.3	2388.9
12.5°	12851.9	10273.1	7163.0	4577.1	2951.7	2230.5	2012.4	1949.0	1906.8	1910.4
15°	12788.5	9337.2	5484.8	3050.3	2110.9	1889.3	1836.5	1808.3	1780.2	1776.6
17.5°	12682.9	8295.8	4014.2	2227.0	1847.0	1769.7	1723.9	1692.3	1657.0	1650.0
20°	12524.7	7113.7	2934.2	1882.2	1730.9	1671.2	1607.8	1565.6	1523.4	1516.3
22.5°	12232.7	5864.7	2255.1	1741.5	1646.5	1579.6	1502.2	1453.0	1410.8	1403.7
25°	11690.8	4693.3	1899.8	1653.5	1572.7	1491.7	1407.2	1340.4	1301.8	1294.7
27.5°	11004.8	3687.0	1723.9	1572.7	1477.6	1403.7	1308.7	1245.5	1210.2	1203.2
30°	10195.7	2839.1	1621.9	1481.1	1365.1	1301.8	1217.3	1164.5	1143.4	1143.4
32.5°	9323.1	2269.2	1579.6	1389.7	1266.5	1196.2	1129.3	1108.2	1101.2	1097.7
35°	8503.4	1970.2	1558.5	1315.8	1178.5	1111.7	1083.6	1087.1	1101.2	1101.2
37.5°	7775.1	1875.1	1548.0	1263.0	1101.2	1041.4	1058.9	1090.6	1076.6	1076.6
40°	7117.3	1885.7	1541.0	1224.4	1037.8	1002.7	1037.8	1013.2	978.1	974.6
42.5°	6614.1	1973.7	1526.8	1192.7	999.2	974.6	960.4	921.8	918.2	925.3
45°	6248.3	2051.1	1523.4	1178.5	956.9	911.2	893.6	855.0	925.3	942.9
47.5°	5815.5	2051.1	1523.4	1129.3	886.6	869.0	840.8	798.6	869.0	886.6
50°	5256.1	1921.0	1463.6	1073.1	830.2	819.7	770.5	717.7	703.7	714.2
52.5°	4549.0	1685.2	1312.3	995.7	774.0	752.9	693.1	654.4	643.8	643.8
55°	3743.3	1410.8	1108.2	883.0	714.2	675.5	633.2	615.7	605.2	598.1
57.5°	3043.2	1157.4	890.1	784.5	657.9	608.6	594.6	573.5	555.9	545.3
60°	2497.9	911.2	735.3	696.6	601.6	555.9	552.4	524.2	478.5	471.4
62.5°	1927.9	668.4	619.2	605.2	545.3	506.7	499.6	443.3	372.9	358.9
65°	1361.5	520.7	499.6	531.3	485.5	450.3	432.8	348.3	274.4	263.8
67.5°	956.9	436.2	394.0	464.4	422.2	376.5	365.9	295.5	228.7	221.6
70°	682.5	355.4	323.7	397.6	337.7	330.7	309.5	246.3	186.4	179.5
72.5°	482.0	270.9	249.8	344.8	232.2	285.0	253.3	189.9	140.7	133.7
75°	355.4	193.5	175.9	200.5	168.9	214.6	179.5	126.7	87.9	84.5
77.5°	260.3	123.1	105.6	98.5	98.5	133.7	98.5	52.8	38.7	35.2
80°	183.0	56.3	49.3	42.2	38.7	31.7	14.0	7.1	3.5	3.5
82.5°	109.1	24.6	24.6	17.6	10.6	0.0	0.0	0.0	0.0	0.0
85°	24.6	10.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	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

(END OF REPORT)